

Dy	2643	aagggctccttcttgatggtgcaccccaaacattcaagaactgctttgcttcgtcttgga	2700
Oy	595	aaggcgcttccgatcttcccaccgataagatgcacatgcgaacctgagctgcatcgggtcaaat	654
Oy	2703	aaggcgcttccgatcttcccaccgataagatgcacatgcgaacctgagctgcatcgggtcaaat	2762
Oy	655	ggattatcttagatgataatttatcttctccacaaagaaaagaaagaaagaaagaaagaaagaa	713
Dy	2763	ggattatcttagatgataatttatcttctccacaaagaaaagaaagaaagaaagaaagaaagaa	2822
Oy	714	cgtgcctcacacattctctccacaaagttcttgcgtatcttcttgaaagtacgacatc	773
Dy	2823	cgtgcctcacacattctctccacaaagttcttgcgtatcttcttgaaagtacgacatc	2884
Oy	774	acctcttagatcagatgcatcctccctaatactcttctctcctgagctatcttgagtaaat	833
Dy	2883	acctcttagatcagatgcatcctccctaatactcttctctcctgagctatcttgagtaaat	2942
Oy	834	gacctcttgcattctctctccactcaatcatctcagtgatgaaatcttgtatgactt	893
Dy	2943	gacctcttgcattctctctccactcaatcatctcagtgatgaaatcttgtatgactt	3002
Oy	894	tcatcttcgttgcattctctccactcaatcatctcagtgatgaaatcttgtatgactt	953
Dy	3003	tcatcttcgttgcattctctccactcaatcatctcagtgatgaaatcttgtatgactt	3062
Oy	954	agctttcttgatataagatcacaagatcgtatcaacaaagaaagaaagaaagaaagaa	992
Dy	3063	agctttcttgatataagatcacaagatcgtatcaacaaagaaagaaagaaagaaagaa	3101
 RESULT 4 AAC27257/5 AAC27257 standard; cDNA: 305 bp.			
AC	AAC27257;		
DT	06-OCT-2000 (first entry)		
XX			
DE	Human secreted protein 5' EST, S60 ID NO: 31332.		
KM	Human: 5' EST; expressed sequence tag; secreted protein; cDNA isolation		
OS	gene therapy; chromosome mapping; 5S.		
PN	Homo sapiens.		
PP	EPI031401-A2.		
PD	06-SEP-2000.		
PF	21-FEB-2000: 2000EP-020610.		
PR	26-FEB-1999; 9905-0122487.		
PX	(GEST) GENSET.		
PI	Dumas Mline Edwards J, Duclet A, Gloudino J;		
DR	MPT: 2000-500381/45.		
CC	New nucleic acid that is a 5' expressed sequence tag (5' EST) for		
PT	obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for		
PS	diagnostic, forensic, gene therapy and chromosome mapping procedures.		
XX			
PS	Claim 1: SEQ ID 31332, 71bp - CD-ROM English.		
XX			
CC	The present sequence is one of a large number of 5' ESTs derived from		
CC	mRNAs encoding secreted proteins. No ORF has yet been conclusively		
CC	identified within the present sequence. The 5' ESTs were prepared from		
CC	total human RNAs or polyA+ RNAs derived from 30 different tissues. EST		
CC	sequences usually correspond mainly to the 3' untranslated region (UTR)		
CC	of the mRNA because they are often obtained from oligo-dT primed cDNA		
CC	libraries. Such ESTs are not well suited for isolating cDNA sequences		

[illegible]

CC abnormalities, hematopoietic disorders, diseases of the immune system,
 CC AIDS, autoimmune diseases (e.g., rheumatoid arthritis), inflammation,
 CC allergies, neurological disorders (e.g., Alzheimer's disease,
 CC Parkinson's disease), cognitive disorders, schizophrenia, asthma,
 CC skin disorders (e.g., psoriasis), sepsis, diabetes mellitus, osteoarthritis,
 CC osteoporosis, diseases of the digestive system, diseases of the
 CC gastrointestinal tract, pregnancy-related disorders, endocrine
 CC disorders, and infections. The proteins can also be used to aid wound
 CC healing and epithelial cell proliferation, to prevent skin aging due to
 CC sunburn, to maintain organs before transplantation, for supporting cell
 CC culture of primary tissues, to regenerate tissues, to identify their
 CC cognate ligands or binding partners, and in chemotaxis, and can be used
 CC as a food additive or preservative to modify storage properties.
 CC Antibodies specific for a protein of the invention can be used to
 CC detect the presence of the protein in a sample, to identify the presence of
 CC a pathogen, or in immunoassays e.g. radioimmunoassay or enzyme linked
 CC immunosorbent assay (ELISA). The present sequence represents a human
 CC secreted protein-encoding cDNA of the invention.

XX Sequence 1182 BP: 274 A; 170 C; 205 G; 519 T; 10 other:

Query Match 2.7% Score 27; E=22; Length 1182;
 Best Local Similarity 100.0%; Pos No 0; 1; 0;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 618 gatgcattgacatcgtgattgctt 644
 |||
 Db 535 gatgcattgacatcgtgattgctt 561

RESULT 10
 HAD05599 standard; cDNA; 1917 BP.
 AC AAD05599;
 DT 17-JUL-2001 (first entry)
 XX
 DE Human secreted protein-encoding gene 21 cDNA clone H0F1W65, SEQ ID NO:31.
 XX
 XX Human: secreted protein; proliferative disorder; cancer; tumor;
 XX immunological disorder; autoimmune disease; hematopoietic disorder;
 XX immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
 XX inflammation; allergy; neurological disorder; Alzheimer's disease;
 XX Parkinson's disease; cognitive disorder; schizophrenia; asthma;
 XX skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
 XX cardiovascular disorder; angiodysplasia; kidney disorder;
 XX gastrointestinal disorder; pregnancy-related disorder; gene therapy;
 XX endocrine disorder; infection; wound healing; vulnery;
 XX cell culture; chemotaxis; food additive;
 XX binding partner identification; ss.
 XX Homo sapiens.
 OS
 XX
 XX
 XX Key Location/Qualifiers
 XX CDS 236..382
 XX FT /*tag= a em'*/
 XX FT /product= "Human secreted protein"
 XX sig_peptide 236..280
 XX FT 281a b
 XX FT 281a b
 XX FT mat_peptide 281a b
 XX FT /*tag= c
 XX FT /product= "Human mature secreted protein"
 XX
 XX MO200134627-A1.
 XX
 XX 17-MAY-2001.
 XX
 XX 08-NOV-2000; 2000MO-US30628.
 XX
 XX 13-NOV-1999; 96US-0164741.
 XX
 XX 30-JUN-2000; 2000US-0215140.
 PH

XX (HOMA-1) HUMAN GENE SCL INC.
 XX
 XX Kaler SM, Komatsculis GA, Baker KJ, Young PE;
 XX
 XX NPL: 2001-316491/33.
 XX P-FSDS: AAE01790.
 XX
 XX Claim 1: Page 436-437, 567pp; English.
 XX
 XX New nucleic acid molecules encoding human secreted proteins, used in
 XX preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
 XX Parkinson's diseases and cancers.
 XX
 XX AAD05579-AAD05658 represent cDNAs corresponding to 28 human secreted
 XX protein, genes and AAE01770-AAE01845 represent the proteins they encode.
 XX AAE01850-AAE01860 represent human secreted protein fragments or variants.
 XX The genes and their secreted proteins are useful for preventing, treat-
 XX ing or ameliorating medical conditions, e.g., by protein or gene
 XX therapy. Pathological conditions can be diagnosed by determining the presence
 XX amount of the new proteins in a sample. Specific uses are described for each of the
 XX 28 genes based on the tissues in which they are most highly expressed,
 XX and include developing products for the diagnosis or treatment of
 XX proliferative disorders, cancer, tumours, local and developmental
 XX abnormalities, hematopoietic disorders, diseases of the immune system,
 XX AIDS, autoimmune diseases (e.g., Alzheimer's disease,
 XX allergies, neurological disorders (e.g., Alzheimer's disease,
 XX Parkinson's disease), cognitive disorders, schizophrenia, asthma,
 XX skin disorders (e.g., psoriasis), sepsis, diabetes mellitus, osteoarthritis,
 XX osteoporosis, diseases of the digestive system, diseases of the
 XX cardiovascular tract, pregnancy-related disorders, endocrine
 XX disorders, and infections. The proteins can also be used to aid wound
 XX healing and epithelial cell proliferation, to prevent skin aging due to
 XX sunburn, to maintain organs before transplantation, for supporting cell
 XX culture of primary tissues, to regenerate tissues, to identify their
 XX cognate ligands or binding partners, and in chemotaxis, and can be used
 XX as a food additive or preservative to modify storage properties.
 XX Antibodies specific for a protein of the invention can be used to
 XX detect the presence of the protein in a sample, to identify the presence of
 XX a pathogen, or in immunoassays e.g. radioimmunoassay or enzyme linked
 XX immunosorbent assay (ELISA). The present sequence represents a human
 XX secreted protein-encoding cDNA of the invention.

XX Sequence 1917 BP: 558 A; 286 C; 349 G; 724 T; 0 other:

Query Match 2.7% Score 27; E=22; Length 1917;
 Best Local Similarity 100.0%; Pos No 0; 1; 0;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 618 gatgcattgacatcgtgattgctt 644
 |||
 Db 364 gatgcattgacatcgtgattgctt 350

RESULT 11
 AAE01790 standard; cDNA; 2781 BP.
 AC AAE01790;
 DT 04-OCT-2001 (first entry)
 XX
 DE Human helix-desaturating enzyme C20 coding sequence.
 XX
 XX Human: helix-desaturating enzyme C20; cytosolic; virulence;
 XX immunological; antiinflammatory; haemostatic; gene therapy;
 XX malignant tumor; haemopathy; HIV infection; immunological disease;
 XX inflammation; ss.
 XX Homo sapiens.
 XX
 XX
 XX
 XX

XX Chain: 25; SEQ ID NO 9166; 654pp; English.

XX The present invention relates to single exon nucleic acid probes (SENPs).

XX The present sequence is one such probe. The probes are useful for

XX producing a microarray for predicting, measuring and displaying gene

XX expression in samples derived from human placenta. The probes are useful

XX for prenatal diagnosis of human genetic disorders.

XX Sequence 535 bp: 144 A; 127 C; 70 G; 154 T; 0 other;

XX

XX Query Match: Best Local Similarity: 100.0%; Score: 25; DB Zs: Length 535;

XX Matches: 25; Conservative: 0; Mismatches: 0; Indels: 0; Caps: 0.

XX

XX 337 ctgcttatttcctacttaacaaag 361

XX ||||||||

XX Db 250 ctggtattttcctacttaacaaag 314

XX

XX RESULTS 17

XX ID AAI16533 standard: DNA; 554 BP.

XX AAI16533:

XX 12-CC-I-2001 (first entry)

XX Probe related for gene expression analysis in human cervical cell sample.

XX Probe: Human; microarray: gene expression; cervical epithelial cell;

XX Cervical Cancer; ss.

XX Homo sapiens.

XX W0200157276-AZ.

XX

XX 05-AUG-2001.

XX PD 30-JAN-2001; 2001MO-USO0670.

XX PF 01-FEB-2000; 2000US-0180312.

XX PR 26-MAY-2000; 2000US-0207456.

XX PR 30-JUN-2000; 2000US-0608408.

XX PR 03-AUG-2000; 2000US-0693366.

XX FR 21-SEP-2000; 2000US-0236587.

XX PR 27-SEP-2000; 2000US-0236555.

XX PR 01-OCT-2000; 2000CAH-0024283.

XX

XX (MOLFE) MOLECULAR DYNAMICS INC.

XX Techn SO; Harzel EK; Chen W; Hawk WT;

XX WP1: 2001-448501/53.

XX

XX Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human cervical epithelial cells -

XX Chain 25; SEQ ID NO 6466; 487pp; English.

XX

XX The present invention relates to human single exon nucleic acid probes

XX (SENPs). The present sequence is one such probe. The SENPs are derived

XX from human HeLa cells. The SENPs can be used to produce expression in a

XX microarray, which can be used to predict, measure and displaying gene

XX expression in samples derived from human placenta. The probes are useful

XX for prenatal diagnosis of human genetic disorders.

XX Note: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format directly from Wipro

XX at ftp.wipro.in/pub/published_pct_sequences.

XX

XX Sequence 554 bp: 147 A; 100 C; 113 G; 154 T; 0 other;

Query Match 2.54: Score 25; DB 22; Length 554;
 Best Local Similarity 100.0%; Pred. No. 0.72; 0: Indels 0: Gaps
 Matches 25: Conservative 0: Mismatches 0: Indels 0: Gaps

337 ctgctattcttcaactaacatg 361
 |||
 9 ctgctattcttcaactaacatg 33

RESULT 18

AI139509 standard: DNA: 554 BP.

AI139509:

17-OCT-2001 (first entry)

Probe #8195 used to measure gene expression in human placenta sample.

DE Probe: microarray; human; placenta; antenatal diagnosis;

KM genetic disorder; ss.

XX Homo sapiens.

XX W0200157272-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001MO-US00663.

XX 04-FEB-2000; 2000US-0180112.

XX 26-MAY-2000; 2000US-0207436.

XX 30-JUN-2000; 2000US-0207436.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0234687.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SQ, Hanzel BK, Chen W, Rank LW;

XX WPI: 2001-188897/53.

XX Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human placenta.

XX Claim 25: SEQ ID NO 8195; 654bp; English.

XX The present invention relates to single exon nucleic acid probes (SENAP).

XX The present sequence is one such probe. The probes and displaying gene

XX producing a microarray device from human placenta. The probes are used

XX for antenatal diagnosis of human genetic disorders.

XX Sequence 554 BP: 147 A: 100 C: 113 G: 194 T: 0 other;

Query Match 2.54: Score 25; DB 22; Length 554;
 Best Local Similarity 100.0%; Pred. No. 0.72; 0: Indels 0: Gaps

337 ctgctattcttcaactaacatg 361
 |||

DB 5 ctgctattcttcaactaacatg 33

RESULT 19

AAD02701 standard: DNA: 27150 BP.

XX

AA02701:
 02-MAY-2001 (first entry)

Human glycosyl sulfotransferase-6 (GST-6) genomic DNA 11.

Human: glycosyl sulfotransferase-6; GST-6; immunosuppressive;
 therapy; selectin binding inhibitor; gene therapy; diabetes;
 systemic lupus erythematosus; SLE; rheumatic diseases; dermatitis;
 polyarteritis nodosa; polyarteritis nodosa; Sjogren's syndrome; adenitis;
 glomerulonephritis; glomerulonephritis; glomerulonephritis; glomerulonephritis;
 demyelinating disease; cirrhosis; ulcerative colitis; allergic rhinitis;
 myocarditis; adult respiratory distress syndrome; eczema; psoriasis;
 asthma; hypersensitivity; rheumatic fever; tissue rejection; ds.

Homo sapiens.

W0200106015-A1.

25-JAN-2001.

15-JUL-2000; 2000MO-US19741.

20-JUL-1995; 5903-0144694.

13-JUL-2000; 2000US-0538678.

(REDC) UNIV CALIFORNIA.

Rosen SD, Lee JK, Hemmerich S;

WPI: 2001-138471/14.

New glycosyl sulfotransferases (GST)-4alpha, GST-4beta and GST-6 for

diagnostic and therapeutic agent screening applications.

Example 2: Page 116-123; 128pp; English.

The present sequence is human glycosyl sulfotransferase-6 (GST-6)
 genomic DNA. The sequence 2 membrane protein useful for inhibiting a binding event
 between a selectin and a selectin ligand, which comprises contacting the
 selectin with a non-sulphated selectin ligand. GST and a small molecular
 agent that inhibits the sulphation activity of GST. GST is also useful
 in inhibiting a selectin mediated binding event. GST is useful in gene
 therapy to treat disorders such as acute or chronic inflammation,
 systemic lupus erythematosus (SLE), rheumatoid arthritis, polyarteritis
 nodosa, polyarteritis, dermatomyositis, Sjogren's syndrome, Hashimoto's
 disease, glomerulonephritis, glomerulonephritis, glomerulonephritis, glomerulonephritis;
 demyelinating diseases, cirrhosis, ulcerative colitis,
 myocarditis, myocarditis, regional enteritis, adult respiratory distress
 syndrome, irritable eczema, psoriasis, lichen planus, allergic rhinitis,
 bronchial asthma, hypersensitivity, rheumatic fever and tissue rejection
 during transplantation.

Sequence 27150 BP: 8357 A: 5396 C: 5396 G: 7556 T: 1 other;

Query Match 2.54: Score 28; DB 22; Length 27150;
 Best Local Similarity 100.0%; Pred. No. 0.46;

337 ctgctattcttcaactaacatg 361
 |||

DB 23410 ctgctattcttcaactaacatg 23413

RESULT 20

AA253815 standard: DNA: 14460 BP.

XX

AA253815:

Wed May 1 07:51:14 2002

us-09-248-178-64.rng

Page 14

```
FT primer_bind /note= "Blinds primer 99-24634-108.mis complement"
FT 107022..107040
FT /tag= "Y"
FT /note= "Blinds primer 99-24656-pu"
FT primer_bind 107262..107280
FT /tag= "Z"
FT /note= "Blinds primer 99-24656-260.mis"
FT misc_binding 107269..107293
FT /tag= "aa"
FT /note= "Blinds primer 99-24656-260"
FT misc_feature 107281..107288
FT /tag= "ab"
FT /note= "Biallelic marker A5"
FT primer_bind complement (107282..107300)
FT /tag= "ac"
FT /note= "Blinds primer 99-24656-260.mis complement"
FT primer_bind complement (107435..107513)
FT /tag= "ad"
FT /note= "Blinds primer 99-24656-rp complement"
FT primer_bind complement (107435..107513)
FT /tag= "ae"
FT /note= "Blinds primer 99-24633-rp"
FT primer_bind 160621..160639
FT /tag= "af"
FT /note= "Blinds primer 99-24633-163.mis"
FT misc_binding 160628..160652
FT /tag= "ag"
FT /note= "Blinds primer 99-24633-163"
FT misc_feature 160640..160647
FT /tag= "ah"
FT /note= "Biallelic marker A6"
FT primer_bind complement (160641..160659)
FT /tag= "ai"
FT /note= "Blinds primer 99-24633-163.mis complement"
FT primer_bind 160770..160787
FT /tag= "aj"
FT /note= "Blinds primer 99-24633-pu"
FT primer_bind complement (160785..160802)
FT /tag= "ak"
FT /note= "Blinds primer 99-24633-pu complement"
FT primer_bind 160857..160875
FT /tag= "al"
FT /note= "Blinds primer 99-24633-108.mis"
FT misc_binding 160864..160888
FT /tag= "am"
FT /note= "Blinds primer 99-24633-108"
FT misc_feature 160876..160883
FT /tag= "an"
FT /note= "Biallelic marker A7"
FT primer_bind complement (160877..160895)
FT /tag= "ao"
FT /note= "Blinds primer 99-24633-108.mis complement"
FT primer_bind complement (161240..161317)
FT /tag= "ap"
FT /note= "Blinds primer 99-24633-rp complement"
FT primer_bind 168813..168830
FT /tag= "aq"
FT /note= "Blinds primer 99-7652-pu"
FT primer_bind 168955..168973
FT /tag= "ar"
FT /note= "Blinds primer 99-7652-162.mis"
FT misc_binding 168962..168986
FT /tag= "as"
FT /note= "Blinds primer 99-7652-162"
FT misc_feature 168974..168991
FT /tag= "at"
FT /note= "Biallelic marker A8"
FT primer_bind complement (168975..168993)
FT /tag= "au"
FT /note= "Blinds primer 99-7652-162.mis complement"
FT primer_bind complement (169311..169331)
FT /tag= "av"
FT /note= "Blinds primer 99-7652-rp complement"
```

```
FI primer_bind 170666..170686
FI /tag= "aw"
FI /note= "Blinds primer 99-16100-pu"
FI primer_bind 170791..170809
FI /tag= "ax"
FI /note= "Blinds primer 99-16100-147.mis"
FI misc_binding 170796..170822
FI /tag= "ay"
FI /note= "Blinds primer 99-16100-147"
FI misc_feature 170810..170817
FI /tag= "az"
FI /note= "Biallelic marker A9"
FI primer_bind complement (170811..170829)
FI /tag= "ba"
FI /note= "Blinds primer 99-16100-147.mis complement"
FI primer_bind complement (171153..171173)
FI /tag= "bb"
FI /note= "Blinds primer 99-16100-rp complement"
FI primer_bind 173065..173085
FI /tag= "bc"
FI /note= "Blinds primer 99-5862-rp"
FI primer_bind 173339..173357
FI /tag= "bd"
FI /note= "Blinds primer 99-5862-167.mis"
FI misc_binding 173346..173370
FI /tag= "be"
FI /note= "Blinds primer 99-5862-167"
FI misc_feature 173358..173365
FI /tag= "bf"
FI /note= "Biallelic marker A10"
FI primer_bind complement (173359..173377)
FI /tag= "bg"
FI /note= "Blinds primer 99-5862-167.mis complement"
FI primer_bind 173455..173514
FI /tag= "bh"
FI /note= "Blinds primer 99-5862-pu complement"
FI primer_bind 189753..189771
FI /tag= "bi"
FI /note= "Blinds primer 99-5915-pu"
FI primer_bind 189936..189956
FI /tag= "bj"
FI /note= "Blinds primer 99-5915-215.mis"

Query Match: 2.5% Score 25; DB 22; Length 315608;
Best Local Similarity: 100.0%; Prd: 0.35;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

334 tctcgtctattctactaacata 358
Cb 251041 tctcgtctattctactaacata 251065

RESULT 23
ID AAC28302
AC AAC28302:
DI 06-OCT-2000 (first entry)
DE Human secreted protein 5' EST, SEQ ID NO: 33277.
LN Human: 5' EST: expressed sequence tag; secreted protein; cDNA isolation;
LN gene therapy; chromosome mapping; ss.
OS Homo sapiens.
XX EP1034101-A2.
XX 06-SEP-2000.
XX 21-FEB-2000; 2000EP-0200610.
```


[illegible]

F1	misc_feature	47264..52484	/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	52872..56935	/tag- k	
F1	misc_feature	57032..57726	/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	58065..59057	/tag- m	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	59615..60471	/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	60870..62451	/tag- o	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	62343..63268	/tag- q	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	63454..66959	/tag- r	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	67964..69070	/tag- s	
F1	misc_feature	70643..70745	/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature		/tag- t	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	72151..72195	/tag- u	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	72858..76408	/tag- v	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	76797..77123	/tag- w	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	77663..78170	/tag- x	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	78403..80173	/tag- y	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	80166..81519	/tag- z	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	81888..85346	/tag- aa	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	86336..87569	/tag- ab	
F1	misc_feature		/label-EST_matching_region	/note-This sequence is specifically claimed*
F1	misc_feature	88571..89188	/tag- ac	

	Query Match:	2.4%; Score 24; LB 22; Length 160271;
	Best local similarity	100.0%; Pred. No. 0.94; 0;
	Matches 24:	Conservative 0; Mismatches 0; Indels 0; Caps 0;
Cy	334 CATTGACCTATTCATTCAAGCAT	357
LD	146597 TGTCTGGTATTTACTTACAT	146974
RESULT 27		
ID	AA506667/6	standard; DNA: 160271 bp.
AC	AA506667	
LI	12-SEP-2001	(first entry)
DE	Human chromosome 18q, 160kb sequence.	
KM	HMMB: 18q; fctb3; neuropsychiatric disorder; schizophrenia;	
KX	neuropsychiatric disease; Alzheimer's disease; Parkinson's disease;	
KW	brain tumour; diabetes; angina pectoris; ds.	
XX		
CS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Primer_bind	26831..28405
FI	/note-	"PCR primer BAd16c122 forward"
FI	misc_feature	28441..29265
FI	/tag- b	"this region is specifically claimed"
FI	misc_feature	29683..39587
FI	/tag- c	"this region is specifically claimed"
FI	misc_feature	28441..14449
FI	/tag- d	"this region is specifically claimed"
FI	/note-	"Region associated with neuropsychiatric disorders"
FI	Primer_bind	complement(28517..28572)
FI	/tag- e	"this region is specifically claimed"
FI	/note-	"PCR primer BAd16c122 reverse"
FI	misc_feature	40841..49253
FI	/note-	"This region is specifically claimed"
FI	misc_feature	43918..46075
FI	/tag- g	"this region is specifically claimed"
FI	misc_feature	47264..52284
FI	/tag- h	"this region is specifically claimed"
FI	/note-	"this region is specifically claimed"
FI	/tag- i	"this region is specifically claimed"
FI	/product-	"Fah23"
FI	/note-	"Fah23 gene region"
FI	misc_feature	52672..56935
FI	/tag- j	"this region is specifically claimed"
FI	misc_feature	57032..57926
FI	/tag- k	"this region is specifically claimed"
FI	/note-	"this region is specifically claimed"
FI	misc_feature	58065..59057
FI	/tag- l	"this region is specifically claimed"
FI	/note-	"this region is specifically claimed"
FI	misc_feature	59615..60471
FI	/tag- m	"this region is specifically claimed"
FI	/note-	"this region is specifically claimed"
FI	misc_feature	60870..62451

FT	/tag- n	/note- *This region is specifically claimed*	FT	/tag- *This region is specifically claimed*
FT	62543..63268		FT	117556..118623
FT	misc_feature		FT	misc_feature
FT	/tag- o	/note- *This region is specifically claimed*	FT	/tag- am
FT	63954..66668		FT	118655..122681
FT	misc_feature		FT	misc_feature
FT	/tag- p	/note- *This region is specifically claimed*	FT	/tag- an
FT	67664..69670		FT	122976..166086
FT	misc_feature		FT	misc_feature
FT	/tag- q	/note- *This region is specifically claimed*	FT	/tag- ao
FT	70643..70749		FT	159506..130413
FT	misc_feature		FT	misc_feature
FT	/tag- f	/note- *This region is specifically claimed*	FT	/tag- ap
FT	72023..72295		FT	131138..134228
FT	misc_feature		FT	misc_feature
FT	/tag- z	/note- *This region is specifically claimed*	FT	/tag- ag
FT	72858..76408		FT	134517..135473
FT	misc_feature		FT	misc_feature
FT	/tag- t	/note- *This region is specifically claimed*	FT	/tag- au
FT	76797..77123		FT	135815..139543
FT	misc_feature		FT	misc_feature
FT	/tag- u	/note- *This region is specifically claimed*	FT	/tag- as
FT	77483..78170		FT	130583..144415
FT	misc_feature		FT	misc_feature
FT	/tag- w	/note- *This region is specifically claimed*	FT	/tag- al
FT	78463..80173		FT	144302..144345
FT	misc_feature		FT	misc_feature
FT	/tag- x	/note- *This region is specifically claimed*	FT	/tag- at
FT	80466..81519		FT	144302..144345
FT	misc_feature		FT	misc_feature
FT	/tag- y	/note- *This region is specifically claimed*	FT	/tag- au
FT	81888..85946		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- z	/note- *This region is specifically claimed*	FT	/tag- ay
FT	86346..87569		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- aa	/note- *This region is specifically claimed*	FT	/tag- ay
FT	88674..89188		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ab	/note- *This region is specifically claimed*	FT	/tag- ay
FT	89455..89745		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ac	/note- *This region is specifically claimed*	FT	/tag- ay
FT	90316..92299		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ad	/note- *This region is specifically claimed*	FT	/tag- ay
FT	92406..94785		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ae	/note- *This region is specifically claimed*	FT	/tag- ay
FT	95556..100121		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- af	/note- *This region is specifically claimed*	FT	/tag- ay
FT	100530..101362		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ag	/note- *This region is specifically claimed*	FT	/tag- ay
FT	101798..103865		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ah	/note- *This region is specifically claimed*	FT	/tag- ay
FT	104486..109841		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ai	/note- *This region is specifically claimed*	FT	/tag- ay
FT	109353..110561		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- aj	/note- *This region is specifically claimed*	FT	/tag- ay
FT	110000..113482		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- ak	/note- *This region is specifically claimed*	FT	/tag- ay
FT	113774..116253		FT	144477..144501
FT	misc_feature		FT	misc_feature
FT	/tag- al	/note- *This region is specifically claimed*	FT	/tag- ay
FT	116866..117907		FT	144477..144501
FT	misc_feature		FT	misc_feature

Query Match: 2.4%; Score 41; Da 22; Length 160271; Best Local Similarity 100.0%; Pred. No. 0.94;

W300014772-62.

17-MAY-2001.

US-NV-2000: 2000m, US10615.

US-NV-1995: 9505-0164042.

(MILL-) MILLERSON PHARM INC.

(RECC) UNIV CALIFORNIA.

Cohen H, Freimer NB:

WPI: 2001-343601/36.

Novel mammalian *fbn3* polymorphisms for diagnostic evaluation, genetic testing and prognosis of *fbn3*-related disorders such as Marfan syndrome, Marfan-related disorders including schizophrenia, bipolar affective disorder.

Claim 1: Fig 1b: 19pp: English.

The sequence represents 160kb of human chromosome 16q containing *fbn3* gene, located in a region associated with neurophysiological or psychiatric disorders. The *fbn3* gene and polymorphic region associated with Marfan syndrome, Marfan-related disorders including schizophrenia, bipolar affective disorder and unipolar disorder. A cell harbouring the gene is engineered ex vivo to express an unimpeded *fbn3* protein. The gene and protein are also useful for treating neurodegenerative disorders such as Alzheimer's disease, senile dementia, Huntington's disease, amyotrophic lateral sclerosis, Parkinson's disease, and Gilles de la Tourette syndrome, and for treating and/or prognosis of a *fbn3*-related disorder.

[illegible]

```

FI FI /tag> at  
FI FI /note> This sequence is specifically claimed in Claim 1.  
FI FI m18c_feature  
FI FI /tag> af-1608d1.  
FI FI /note> This sequence is specifically claimed in Claim 1.  
FI FI m18c_feature  
FI FI /tag> 122978.162066.  
FI FI /note> ak  
FI FI m18c_feature  
FI FI /tag> 129506.130413.  
FI FI /note> This sequence is specifically claimed in Claim 1.  
FI FI m18c_feature  
FI FI /tag> 131116.134226.  
FI FI /note> am  
FI FI m18c_feature  
FI FI /tag> 134517.135473.  
FI FI /note> an  
FI FI m18c_feature  
FI FI /tag> 135963.  
FI FI /note> This sequence is specifically claimed in Claim 1.  
FI FI m18c_feature  
FI FI /tag> 141893.  
FI FI /note> ao  
FI FI m18c_feature  
FI FI /tag> 140683.144415  
FI FI /note> This sequence is specifically claimed in Claim 1.  
FI FI m18c_feature  
FI FI /tag> ap  
FI FI /note> This sequence is specifically claimed in Claim 1.  
  
PR XX Wo2001349411.A1.  
PR XX 17-May-2001.  
PR XX  
PR FE 08-Nov-2000: 20COW-0350624.  
PR XX  
PR FE 08-Nov-1999: 5905-0164037.  
PR XX  
PA (MILL.) MILLERNTON PHARM INC.  
PA (FRED.) OSAI CALIFORNIA.  
XX  
XX  
XX Cited in, freidner AB:  
XX WPI: 2001-335946/35.  
XX  
XX Novel mutation fsh2e polynucleotide for diagnostic evaluation, genetic testing and prognosis of fsh2e-related disorders e.g., neuropsychiatric disorders including schizophrenia and bipolar affective disorder  
XX  
XX Claim 1: Fig 1B: 174pp: English.  
XX  
CC The present sequence is a 116 kb fragment located between markers CC BAC16172 and BAP16cag1 from human chromosome 18q. This sequence includes CC the 18q interval associated with neuropsychiatric disorders, located from CC positions 72441-144119. This sequence also contains a defective disorder (fsh2e) gene. The fsh2e gene is a mental disorder; BP: or manic-depressive illness) in CC humans. The present sequence of its fragment, analog or allelic process in a CC for treating a fsh2e-related disorder or fsh2e-mediated process in a CC animal, such as neuropsychiatric disorders such as schizophrenia, CC attention deficit disorder, schizoaffective disorder, bipolar affective CC Alzheimer's disease, senile dementia, Huntington's disease, emphysema, CC lateral sclerosis, and genomic function disorders such as hypertension CC and sleep disorders can be treated  
XX  
XX Sequence 160271 BP: 45616 A: 32564 C: 34528 G: 46703 T: 58 other:  
  
Query Match: 2.44: Score 24: Lb 22: Length 160271:  
Best Local Similarity 100.0%: Pctid 0.94: Mismatches 0: Gaps 0  
Matches 24: Conservative 0: Mismatched 0: Indels 0: Gaps 0  
  
G> 331 tttctgacttattccatcaatc 357  
|||||  
DB 145937 ttgttcgcctaatltaacattacat 145974
```


ID AAD04494 standard; cDNA: 5353 BP
 XX
 AC AAD04494;
 XX
 DT 04-JUL-2001 (first entry)
 XX
 DE Human 27875 ADAM-TS (a disintegrin and metalloproteinase) cDNA.
 XX
 KM Human: ADAM-TS: A Disintegrin And Metalloproteinase; antiinflammatory;
 KM angiogenesis; bronchial asthma; coagulase's syndrome; metastasis;
 KM heart failure; cardiac hypertrophy; chronic ischaemic heart disease;
 KM stroke cell disease nephropathy; urinary tract obstruction; haemostatic;
 KM skeletal muscle disorder; myocardial infarction; blood vessel disease;
 KM hypertension; atherosclerosis; hyperlipidemia; hypercholesterolemia;
 KM thrombocytopenia; thrombocytopenic purpura; osteoporosis;
 KM rickets; osteomalacia; bone disease; gene therapy; anticancerial;
 KM cardiac; tumour; thymoma; vasculitis; cytoskeletal; vitreous; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT 27875
 FT CDS
 FT
 FT 36..125
 FT /product= "Human 27875 ADAM-TS protein"
 FT /tag= b
 FT met-peptide
 FT 126..5093
 FT /tag= c
 FT /product= "Human 27875 ADAM-TS protein"
 XX
 PN M0200131031-A1.
 XX
 PD 03-MAY-2001.
 XX
 PE 25-OCT-2000; 2000MO-0529380.
 XX
 PR 25-OCT-1999; 99US-0426382.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 AK Kapeller-Liberman R. White D;
 XX
 DR WPI: 2001-300513/31.
 DR P-PSDB: AA00034.
 XX
 PT Novel isolated polypeptide, 27875, a human ADAM-TS (a disintegrin and
 PT metalloproteinase) useful for diagnosis and treatment of disorders of
 PT bone, lung, heart, skeletal muscle, such as osteoporosis, emphysema,
 PT angina
 XX
 Claim 7; Fig 1; 13pp; English.
 XX
 CC The present sequence is a cDNA encoding 27875 protein, a human ADAM-TS
 CC (a disintegrin and metalloproteinase). Metalloproteinase is a
 CC proteolytic enzyme involved in protein maturation, protein degradation,
 CC tumour growth, metastasis and angiogenesis. Nucleotides encoding 27875,
 CC 27875 protein and its antibodies are useful for preventing, diagnosing
 CC and treating 27875 metalloproteinase-related disorders as congenital anomalies
 CC bronchial asthma, coagulase's syndrome, pulmonary alveolar proteinosis,
 CC disorders involving heart such as heart failure, cardiac hypertrophy,
 CC angina pectoris, myocardial infarction, chronic ischaemic heart disease
 CC disorders involving the skeletal muscle include tumours such as
 CC rhabdomyosarcoma, disorders involving blood vessel such as hypertension,
 CC atherosclerosis, vasculitis associated with other disorders, disorders
 CC involving the testis and epididymis such as nonspecific epididymitis and
 CC orchitis, gonorrhea, mumps, chlamydia, syphilis, gonococcal infection,
 CC glomerulonephritis, necrotising glomerulonephritis, renal artery
 CC stenosis, chronic glomerulonephritis, sickle cell disease nephropathy,
 CC urinary tract obstruction, disorders of the bone such as osteoporosis,
 CC osteoporosis, Paget's disease, rickets, osteomalacia, osteonecrosis,

5. Sequence 5353 BP: 520 A: 1833 C: 1649 G: 911 T: 0 other:
 Query Match 2.3% Score 23 DB 22: Length 5353:
 Local Similarity 100.0% Pred No. 3.4: Mismatches 0: Gaps 0:
 Matches 23: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
 575 catctaccacaaataaaataaa 1001
 5250 catctaccacaaataaaataaa 5318
 5250T 35
 5250S5557C
 ID AAD05557 standard; cDNA: 6031 BP.
 XX
 AC AAD05557;
 XX
 DT 03-MAY-2001 (first entry)
 XX
 DE Human histone deacetylase HDAC-C coding sequence.
 XX
 FH Key
 FT 27875
 FT CDS
 FT
 FT 36..125
 FT /product= "Human 27875 ADAM-TS protein"
 FT /tag= b
 FT met-peptide
 FT 126..5093
 FT /tag= c
 FT /product= "Human 27875 ADAM-TS protein"
 XX
 PN M0200131031-A2.
 XX
 PD 03-MAY-2001.
 XX
 PE 25-OCT-2000; 2000MO-1601252.
 XX
 PR 03-MAY-1999; 99US-013287.
 XX
 PA (METH-) METHYLENE INC.
 XX
 AK Kuchel AR, Li Z, Besterman JM;
 XX
 DR WPI: 2001-016407/02.
 DR P-PSDB: AAB4955.
 XX
 PT Disclosure: Page 66-69; 125pp; English.
 XX
 CC The present invention provides inhibitors of histone deacetylase enzyme
 CC HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
 CC inhibitors may be antisense strands or they may be compounds identical
 CC by connecting the enzyme with the compound and measuring the result.
 CC enzyme activity. These inhibitors are useful for treating cancers and for
 CC identifying which histone deacetylase is involved in a neoplasia.
 XX
 Sequence 6031 BP: 2604 A: 1446 C: 1363 G: 2576 T: 0 other:
 Query Match 2.3% Score 23 DB 22: Length 6031:
 Local Similarity 100.0% Pred No. 2.5: Mismatches 0: Gaps 0:
 Matches 23: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
 626 atctgttgatgcttgcgttgc 650
 44113 AATCTGATTCCTTGGTAA 44051

XX Human: 5' EST, expressed sequence tag, secreted protein; CDNA isolation;
 XX gene therapy; chromosome mapping; 5s;
 XX Hcmo sapiens.
 XX
 XX EP1033401-A2
 XX
 XX 06-SEP-2000.
 XX
 XX 21-FEB-2000; 400EP-0200610.
 XX
 XX 26-FEB-1999; 5905-0122487.
 XX
 XX (GSE1) GSE1.
 XX
 XX Lomas Mline & J. Duclert A. Giordano J;
 XX WPI: 2600-50usel/15.
 XX
 XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 XX containing CDNA & genomic DNA that correspond to 5' ESTs and for
 XX diagnostic, forensic, gene therapy and chromosome mapping procedures
 XX
 XX Claim 1: SEQ ID 31047: 71pp + CD-ROM: English.
 XX
 XX The present sequence is one of a large number of 5' ESTs derived from
 XX mRNAs encoding secreted proteins. No ORF has yet been conclusively from
 XX identified within the present sequence. The 5' ESTs were prepared from
 XX total human RNA or polyA+ RNAs derived from 3' untranslated region (UTR)
 XX sequences usually of polyA+ RNAs. The 5' ESTs are derived from 3' untranslated region (UTR)
 XX libraries. Such ESTs are not well suited for isolating cDNA sequences
 XX derived from the 5' ends of mRNAs and even in those cases where longer
 XX cDNA sequences have been obtained, the full 5' UTR is rarely included.
 XX 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 XX used to obtain full length cDNAs with intact 5' ends and can therefore be
 XX in diagnostic, forensic, gene therapy and chromosome mapping purposes.
 XX They are used to obtain upstream regulatory sequences and to design
 XX expression and secretion vectors.
 XX
 XX Sequence 326 bp; 80 A; 50 C; 66 G; 132 T; 1 other:
 XX
 XX Query Match 2.2%; Score 24; DB 21; Length 329;
 XX Best Local Similarity 100.0%; Pred. No. 12;
 XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 XX
 XX 626 tgaactctgagatgcttcattg99 647
 XX |||||||||
 XX 144 tgaactctgagatgcttcattg99 165

XX 09-APR-1999: 95WO-1800712.
PF 09-APR-1998: 98US-0057719.
PR 28-APR-1998: 98US-0065047.
XX (GERT) GENSET.
XX Dumas Milne Edwards J, Duclert A, Giordano J:
DR MPI: 2000-038446/03.
DR P-PSDB: AAY65115.
XX Novel secreted protein 5' expressed sequence tag sequences used in
PT diagnostic, forensic, gene therapy, and chromosome mapping procedures
XX Claim 1: Page 427: 637pp: English.
XX AA42265 to AA213075 represent novel 5' expressed sequence tag (EST)
CC sequences, corresponding to human secreted proteins. AAY65115 to
CC AAY65438 represent the EST-related proteins corresponding to AA42265 to
CC AA43052. The 5' ESTs can be used for producing secreted human gene
CC products. They can be used to identify and isolate cDNA clones
CC corresponding to the secreted proteins encoded by the EST sequences. The
CC location, development stage, rate, and quantity of protein synthesis, as
CC well as stability of mRNA. The ESTs are also useful as probes for
CC chromosome mapping, and to obtain full length cDNA clones. The ESTs can
CC also be used in forensic procedures to identify individuals, or in
CC diagnostic procedures to identify individuals having genetic diseases
CC resulting from abnormal gene expression. The products may also be used in
CC gene therapy protocols. The nucleic acids encoding signal peptides can be
CC used for directing extracellular secretion of a polypeptide of the
CC secreted protein. The polypeptides encoded by the EST sequences may be useful in
CC identifying a variety of human conditions. Secreted proteins have
CC therapeutic value, and the identification of new secreted proteins is
CC valuable. AA42249 to AA42264 and AAY6444 to AAY6450 represent
CC sequences used in the exemplification of the present invention.
XX
S0 Sequence 329 BP: 80 A: 50 C: 66 G: 132 T: 1 other:

Query Match 2.2% Score 22: DB 21: Length 147
Best Local Similarity 100.0%: Pred. No. 12:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 626 tgaatcgtgagatgcttggg 647
DB 144 tgaatcgtgagatgcttggg 165

RESULT 39
AAC36471
ID AAC36471 standard: DNA: 731 BP.
XX AAC36471:
AC 17-OCT-2000 (first entry)
XX
XX Arabidopsis thaliana DNA fragment SEQ ID NO: 13931.
XX
XX Hybridisation assay: genetic mapping: gene expression (catalytic):
XX protein identification: signal transduction pathway:
XX metabolic pathway: promoter: termination sequence: ss.
XX
XX Arabidopsis thaliana.
XX
XX EP1033405-A2.
XX
XX 06-SEP-2000.
XX
XX 25-FEB-2000: 2000EP-0301439.
XX

FR 25-FEB-1999: 95US-0121855.
FR 05-MAR-1999: 95US-0121180.
FR 05-MAR-1999: 95US-0123548.
FR 23-MAR-1999: 95US-0122788.
FR 23-MAR-1999: 95US-0122788.
FR 23-MAR-1999: 95US-0122785.
FR 01-APR-1999: 95US-0127462.
FR 06-APR-1999: 95US-0128234.
FR 08-APR-1999: 95US-0128714.
FR 16-APR-1999: 95US-0126845.
FR 15-APR-1999: 95US-0130077.
FR 21-APR-1999: 95US-0130445.
FR 23-APR-1999: 95US-0130540.
FR 25-APR-1999: 95US-0130540.
FR 30-APR-1999: 95US-0131445.
FR 30-APR-1999: 95US-0132048.
FR 30-APR-1999: 95US-0132407.
FR 04-MAY-1999: 95US-0132484.
FR 05-MAY-1999: 95US-0132485.
FR 06-MAY-1999: 95US-0132486.
FR 06-MAY-1999: 95US-0132487.
FR 07-MAY-1999: 95US-0132492.
FR 11-MAY-1999: 95US-0134218.
FR 14-MAY-1999: 95US-0134219.
FR 14-MAY-1999: 95US-0134221.
FR 14-MAY-1999: 95US-0134370.
FR 16-MAY-1999: 95US-0134768.
FR 16-MAY-1999: 95US-0134941.
FR 19-MAY-1999: 95US-0135124.
FR 20-MAY-1999: 95US-0135125.
FR 21-MAY-1999: 95US-0135203.
FR 25-MAY-1999: 95US-0136021.
FR 27-MAY-1999: 95US-0136392.
FR 28-MAY-1999: 95US-0136762.
FR 01-JUN-1999: 95US-0137222.
FR 03-JUN-1999: 95US-0137526.
FR 04-JUN-1999: 95US-0137502.
FR 07-JUN-1999: 95US-0137724.
FR 07-JUN-1999: 95US-0137724.
FR 10-JUN-1999: 95US-0138540.
FR 10-JUN-1999: 95US-0138847.
FR 11-JUN-1999: 95US-0139119.
FR 16-JUN-1999: 95US-0139452.
FR 16-JUN-1999: 95US-0139453.
FR 17-JUN-1999: 95US-0139452.
FR 18-JUN-1999: 95US-0139454.
FR 18-JUN-1999: 95US-0139455.
FR 18-JUN-1999: 95US-0139456.
FR 18-JUN-1999: 95US-0139457.
FR 18-JUN-1999: 95US-0139458.
FR 18-JUN-1999: 95US-0139459.
FR 18-JUN-1999: 95US-0139460.
FR 18-JUN-1999: 95US-0139461.
FR 18-JUN-1999: 95US-0139462.
FR 18-JUN-1999: 95US-0139463.
FR 18-JUN-1999: 95US-0139750.
FR 18-JUN-1999: 95US-0139751.
FR 18-JUN-1999: 95US-0139752.
FR 23-JUN-1999: 95US-0139856.
FR 23-JUN-1999: 95US-0140353.
FR 23-JUN-1999: 95US-0140354.
FR 24-JUN-1999: 95US-0140354.
FR 28-JUN-1999: 95US-0140699.
FR 28-JUN-1999: 95US-0140823.
FR 29-JUN-1999: 95US-0140991.
FR 30-JUN-1999: 95US-0141287.
FR 01-JUL-1999: 95US-0141847.
FR 01-JUL-1999: 95US-0142024.
FR 03-JUL-1999: 95US-0142024.
FR 06-JUL-1999: 95US-0142360.
FR 08-JUL-1999: 95US-0142803.
FR 09-JUL-1999: 95US-0142920.
FR 12-JUL-1999: 95US-0142977.

[illegible]

[illegible]

Claim 8; SEQ ID 16978; 2537pp + CD ROM; English.

5Q Sequence 1756 BP; 657 A; 319 C; 372 G; 448 T; 0 other;

Matches 22; Conservative 0; Mismatches

Db 762 TTAATTCAGCTTACATAATGAC 741

ID AAQ55138 standard; DNA; 8654 bp

DT 21-SEP-1995 (first entry)

Probe; *S. aureus*; *S. epidermis*; *E. faecalis*; *P. aeruginosa*; *E. coli*;

PN W09401583-A.

07-JUL-1993; 93MO-JP009336.

PA (OHNO/) OHNO "I".

PI Eda S, Matsuhisa A, Ohno T, Uehara H

DR WPI; 1994-035086/04

KS Claim 4; Page 30-35; 100pp; Japanese
XX

50 Sequence 8654 BP; 2568 A; 1137 C; 1362 G; 3186 T; 1 other;

Matches	22	Conservative	0	Mismatches	0	Indels	0	Gaps	0
---------	----	--------------	---	------------	---	--------	---	------	---

7872 tttatttgtagctatgtag 7885

ID AA162937 standard; DNA; 11617 BP

DT 22-OCT-2001 (first entry)

Human; nootropic; neuroprotective;

KM antihyperlipidemic; antidiabetic; anticonvulsant; antifungal;
KM antiatherogenic; antidiabetic; anticonvulsant; antifungal;

5
3
3
X
X

XX 60200155449-A1-

PF 17-JAN-2001; 2001MO-US01346

PR 19-MAY-2000; 200005-0205312
PR 07-JUL-2000; 200005-0216880

06-SEP-2000: 2000US-0230437 PR

PM 43-321-2000; 2000US-0239937
PR 13-CCT-2000; 2000US-0239937

PR	08-NOV-2000; 2000US-0246525
PR	08-NOV-2000; 2000US-0246526

FR 17-NOV-2006; 2000US-0249211

Wed May 1 07:51:14 2002

us-09-248-178-64.rng

CC colon and other cancer cells. A claimed method of detecting a
CC cancer cell involves identifying MICA or MICB in the sample. Also
CC claimed are methods of purifying, enriching and expanding V- α 2 β 1
CC gamma-delta T (VT) cells using MICA or MICB polypeptides, a
CC method of adoptive immunotherapy using purified VT cells, a
CC method of increasing expression of MICA by providing a cell with
CC an expression construct comprising a MICA coding region under the
CC control of a promoter active in eukaryotic cells, and a transgenic
CC animal expressing MICA and/or MICB. A therapeutic agent (e.g.
CC a toxin or cytokine) conjugated to a MICA- or MICB-binding agent
CC (e.g., antibodies) can be used for the detection and treatment of
CC cancer. The invention also provides methods for the detection of
CC cancer, including colorectal cancer, pancreatic cancer, stomach
CC stomach cancer, testicular cancer, cervical cancer, leukemia,
CC melanoma, head and neck cancer, esophageal cancer, colon cancer,
CC breast cancer, lung cancer, ovarian cancer, prostate cancer and
CC renal cancer (all claimed). The antibody can also be used in the
CC treatment of other disorders such as GVHD and inflammatory bowel
CC disease.
XX
SQ Sequence 11722 BP: 2414 A: 2956 C: 2828 G: 3484 T: 0 other:

Query Match 2.28: Score 22: DB 19: Length 11722:
Best Local Similarity 100.0%: Pred. No. 7.7:
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 618 gatgcattgaactcgtagatt 639
|||||
DB 3518 gatgcattgaactcgtagatt 3519

Search completed: April 30, 2002, 11:14:24
Job Time: 12133 sec

Wed May 1 07:51:20 2002

us-09-248-178-65.rml

Page 1

Database version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OK nucleic - nucleic search, using sw model

Run on: April 30, 2002, 10:31:38 : Search time 308.52 seconds

(without alignments)

Title: US-09-248-178-65

Perfect score: 575

Sequence: 1 actgataataaagatataat.....aaagaaataaataaataa 575

Scoring table: GATCO_MUC

Gapco 60.0 , Gapext 60.0

Searched: 351203 seqs, 11328999 residues

Word size: 10

Total number of hits satisfying chosen parameters: 68114

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database: Issued Patents, NA.*

- 1: /cgn2_6/prodata/1/ina/68_COMB.seq.*
- 2: /cgn2_6/prodata/1/ina/68_COMB.seq.*
- 3: /cgn2_6/prodata/1/ina/68_COMB.seq.*
- 4: /cgn2_6/prodata/1/ina/68_COMB.seq.*
- 5: /cgn2_6/prodata/1/ina/68_COMB.seq.*
- 6: /cgn2_6/prodata/1/ina/68_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	319	55.5	654	4	US-09-040-584-27
2	23	4.0	3207	1	US-07-946-457-1
3	23	4.0	3207	1	US-08-183-322-1
4	23	4.0	3207	2	US-08-178-882-1
5	23	3.8	326	2	US-08-520-678-22
6	23	3.8	1731	4	US-08-231-505-23
7	22	3.8	1731	1	US-07-864-475A-1
8	22	3.8	2010	2	US-08-468-245A-4
9	22	3.8	2010	2	US-09-136-605-14
10	22	3.8	8056	3	US-09-306-651B-41
11	22	3.8	8082	1	US-08-187-785-1
12	22	3.8	8082	5	US-08-187-785-1
13	22	3.8	8082	5	US-08-187-785-1
14	22	3.8	8082	5	US-08-187-785-1
15	22	3.8	8082	5	US-08-187-785-1
16	22	3.8	8082	5	US-08-187-785-1
17	22	3.8	8082	5	US-08-187-785-1
18	22	3.8	8082	5	US-08-187-785-1
19	22	3.8	8082	5	US-08-187-785-1
20	22	3.8	8082	5	US-08-187-785-1
21	22	3.8	8082	5	US-08-187-785-1
22	22	3.8	8082	5	US-08-187-785-1
23	22	3.8	8082	5	US-08-187-785-1
24	22	3.8	8082	5	US-08-187-785-1
25	22	3.8	8082	5	US-08-187-785-1
26	22	3.8	8082	5	US-08-187-785-1
27	22	3.8	8082	5	US-08-187-785-1

26	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
25	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
24	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
23	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
22	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
21	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
20	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
19	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
18	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
17	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
16	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
15	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
14	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
13	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
12	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
11	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
10	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
9	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
8	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
7	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
6	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
5	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
4	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
3	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
2	20	3.5	744	1	US-08-167-567-133	Sequence 133, App
1	20	3.5	744	1	US-08-167-567-133	Sequence 133, App

Query Match: 55.5%, Score 319, DB 4, Length 654;
Best Local Similarity: 100.0%; Pred. No. 2.7e+15;
Matches 315; Conservative 0; Mismatches 0; Index 0; Gaps 0;

cy 1 actgataataaagatataat.....aaagaaataaataaataa 60
db 6 actgataataaagatataat.....aaagaaataaataaataa 147

Wed May 1 07:51:20 2002

us-09-248-178-65.rni

Page 2

Qy	61	ctgaataagatcttcgctcgagagaagaccttcagaataatctatagymtgcgaatttca	120
Db	148	ctaaatagcctttatcttctatgacgacacctttacgaaatctctatgcacatttcca	207
Oy	121	cttgagctactcttaacccacgctctcaagaaggggcagttctctcaagaacgaaacacg	180
Db	208	ctctgcctacattctacacccattccctttttaaagacacacgctttctcaaaagcacaacatgc	267
Oy	181	gcgcagctcagaagttctctccctaaactcgaatctgaagctgaaggcagctggcccaca	240
Db	268	gcacagctctcgaattttctctccctaaactcgaatctgaagctgaaggcagctggcccaca	327
Oy	241	ctgggggggctcgaacactctctgaactccattcttctgagacgacacacacacacatt	300
Db	328	tctggcagagctccacacattttcttaattccacatttcttggttcgcgcctaaatgacatt	387
Oy	301	ctctgcctactctcgaatctc	319
Db	388	ctctgcctactctcgaatctc	406

RESULT 2
US-07-946-497-1
Sequence 1, Application US/07946497
Patent No. 5506119
GENERAL INFORMATION:
APPLICANT: MENZLICH, Peter
INVENTOR: MENZLICH, Peter
APPLICANT: GUENTHER, Ursula
APPLICANT: MATZKU, Siegfried
APPLICANT: MENZL, Achim
TITLE OF INVENTION: VARIANT CD4 SURFACE PROTEINS, DNA
TITLE OF INVENTION: SEQUENCES CODING THESE ANTIBODIES AGAINST THESE PROTEINS
TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
NUMBER OF SEQUENCES: 8
COMBINATION ADDRESSES:
ADDRESS: P.O. Box 1000
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS-DOS
SOFTWARE: GENES
CURRENT APPLICATION DN Release #1.0, Version #1.25
APPLICATION NUMBER: US/07/946,497
FILING DATE: 19921109
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 16515/145
TRANSMISSION INFORMATION:
TELEPHONE: (408) 295-1500
TELEFAX: (408) 295-1500
TELEX: 904136
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3207 base pairs
TYPE: NUCLEIC ACID
STRANDNESS: double
SOURCE: Synthetic
IMMEDIATE SOURCE:
CLONE: P-Med-1
FEATURE:
NAME/KEY: CDS
LOCATION: 113..1624

```

Query Match: 4.0% Score 23; E6.1: length 3207;
Best Local Similarity 100.0% Pzed. No. 0.21;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 553 Caaaaaggaagaaagaaagaaagaa 575
      |||||
Ec 3157 CAAAGAGGAGGAGGAGGAGGAGGAG 3175

```

```

07 553 ccaaaaggaataaaaaaaaah 575
1b 3157 CAAAGACCAAAAAAAGAAAAA 3175

Query Match. 4.0% Score 23; Lb 1; Length 3207;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

US-08-483-322-1
Sequence 1, Application US/08483322
Patent No. 5760178
GENERAL INFORMATION:
INVENTOR: MENTLICH, Peter
APPLICANT: 3M COMPANY
ATTORNEY/AGENT INFORMATION: GUENTHER, Ursula
APPLICANT: MENTL, Achim
TITLE OF INVENTION: VARIANT C144 SURFACE PROTEINS, DNA
TITLE OF INVENTION: SEQUENCES CODING THESE, ANTIBODIES AGAINST THESE PROTEINS
TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
City: 3000 K Street, N.W., Suite 500
City: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentio Release 11.0; Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,322
FILING DATE: 09-NOV-1992
PRIORITY: 07-NOV-1995
CLASSIFICATION: A15
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/946,457
FILING DATE: 09-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 16915/145
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5530
TELEX: 504132
FAX: (202)672-5599
INFORMATION FOR SEQ. ID NO.: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3207 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: p-Meta-1
FEATURE:
NAME/KEY: COS
LOCATION: 113..1624
US-08-483-322-1

```


Wed May 1 07:51:20 2002

us-09-248-178-65.rml

Page 3

US-08-478-882-1
Sequence 11, Application US/08174662
Patent No. 6885373
GENERAL INFORMATION:
APPLICANT: HEPBELL, Peter
APPLICANT: PORTA, Helmut
APPLICANT: GUENTHER, Ursula
APPLICANT: MATZKU, Siegfried
APPLICANT: WENZL, Achim
TITLE OF INVENTION: VARIANT CD4 SURFACE PROTEINS, DNA SEQUENCES CODING THESE, ANTIBODIES AGAINST THESE PROTEINS, TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESS: 1000 K Street, N.W., Suite 500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA: Release #1.0, Version #1.25
APPLICATION NUMBER: US/08/478,882
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/916,497
FILING DATE: 19921109
ATTORNEY/AGENT INFORMATION:
NAME: BEYR, Stephan A.
ADDRESS: 16915/115
REFERENCE/DOCKET NUMBER: 16915/115
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5359
TELEX: 904136
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3207 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pWeta-1
FEATURE:
NAME/KEY: CDS
LOCATION: 113..1624
US-08-478-882-1

Query Match
Best Local Similarity 100.0%; Pctd. No. 0.21;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 553 aaaaaggggaaaaa 575
DB 3157 CAAAAGCAAAAAAAAAAAAAA 3179

RESULT 5
US-08-520-678A-22/C
Sequence 22, Application US/08520678A
Patent No. 6297003
GENERAL INFORMATION:
APPLICANT: Rice, Charles M.
APPLICANT: KOIYKHAYOV, Alexander A.
TITLE OF INVENTION: NOVEL 3' TERMINAL SEQUENCE OF HEPATITIS C VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:

ADDRESS: Howell & Hatterkamp, L.C.
STREET: 7733 Forsyth Blvd., Suite 1100
CITY: St. Louis
STATE: MO
COUNTRY: USA
ZIP: 63105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA: Release #1.0, Version #1.30
APPLICATION NUMBER: US/08/520,678A
FILING DATE:
CLASSIFICATION: 516
ATTORNEY/AGENT INFORMATION:
NAME: Henderson, Melodie M.
REGISTRATION NUMBER: 37,848
REFERENCE/DOCKET NUMBER: 6029-6836
TELEPHONE: 314-727-0368
TELEFAX: 314-727-0092
TELEX:
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 356 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-520-678A-22

Query Match
Best Local Similarity 100.0%; Pctd. No. 0.66;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 554 aaaaaggggaaaaa 575
LB 203 AAAAAAGCAAAAAAAAAAAAAA 182

RESULT 6
US-08-697-126-22/C
Sequence 22, Application US/08697126
Patent No. 6297003
GENERAL INFORMATION:
APPLICANT: Rice, Charles M.
APPLICANT: KOIYKHAYOV, Alexander A.
TITLE OF INVENTION: NOVEL 3' TERMINAL SEQUENCE OF HEPATITIS C VIRUS GENOME AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESS: Howell & Hatterkamp, L.C.
STREET: 7733 Forsyth Blvd., Suite 1100
CITY: St. Louis
STATE: MO
COUNTRY: USA
ZIP: 63105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA: Release #1.0, Version #1.30
APPLICATION NUMBER: US/08/697,126
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/520,678
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Henderson, Melodie M.

Wed May 1 07:51:20 2002

us-09-248-178-65.rni

Page 5

APPLICANT: Segre et al., Gino V.
TITLE OF INVENTION: PARATHYROID HORMONE RECEPTOR AND LNA
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
CITY: Boston
STATE: MA
ZIP: 02110-2804
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION NUMBER: US/08/468,245A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/664,475
FILING DATE: 06-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/681,702
FILING DATE: 04-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fish & Richardson
REGISTRATION NUMBER: K 14,819
REFERENCE/DOCKET NUMBER: 00786/071003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-6506
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2010 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 28...1807
US-08-468-245A-4

Query Match 3.8%; Score 22; DB 2; Length 2010;
Best Local Similarity 100.0%; Pred. No. 0.58;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OR 554 aaaaaggaagaaaaa 575
DB 1941 AAAAGCAAAAAAAAAAAAAA 1962

RESULT 10
US-09-136-605-14/C
Sequence 14, Application US/0913605A
Patent No. 6140052
OPERATING SYSTEM: CHAN
APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Beta Catenin, TCF-4, and APC Interact to
FILE REFERENCE: 1107,75741
CURRENT APPLICATION NUMBER: US/09/136,605A
FILING DATE: 1998-08-20
EARLIER APPLICATION NUMBER: 08/821,355
FILING DATE: 1997-03-20
EARLIER APPLICATION NUMBER: 08/003,687
FILING DATE: 1996-01-06
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FASTSEQ for Windows Version 3.0

SEQ ID NO 14
LENGTH: 8056
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: LTA-signal
LOCATION: (2456)...(2462)
US-09-136-605-14

Query Match 3.8%; Score 22; DB 3; Length 8056;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OR 554 aaaaaggaagaaaaa 575
DB 1220 AAAAGCAAAAAAAAAAAAAA 6195

RESULT 11
US-08-106-691B-41/C
Sequence 41, Application US/08106691B
Patent No. 5734035
GENERAL INFORMATION:
APPLICANT: Calabretta, Bruno
TITLE OF INVENTION: ANTISENSE
NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sandoz, Linda, Larygina & Monaco, P.C.
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB
OPERATING SYSTEM: MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,691B
FILING DATE: September 15, 1994
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 8121-8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5545
TELEX: NO. 5734035E
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 8082 base pairs
TYPE: nucleic acid
STRANDNESS: double
TOPOLOGY: linear
US-08-106-691B-41

Query Match 3.8%; Score 22; DB 1; Length 8082;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OR 554 aaaaaggaagaaaaa 575
DB 1246 AAAAGCAAAAAAAAAAAAAA 6225

Wed May 1 07:51:20 2002

us-03-248-178-65.rni

RESULT 12
US-08-187-785-1/C
Sequence 1, Application US/08187785
Patent No. 5756476
GENERAL INFORMATION:
APPLICANT: Spacell, Stephen
APPLICANT: Uney, Ellis
APPLICANT: Speltz, Edith
TITLE OF INVENTION: Inhibition of No. 5756476-Transfected Cell
TITLE OF INVENTION: Proliferation Using Anti-sense Oligonucleotides
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knudde, Mortens, Olson, and Bear
STREET: 620 Newport Center Dr. Sixteenth Floor
CITY: Newport Beach
STATE: CA
COUNTRY: USA
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/187,785
FILING DATE:
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/821,415
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Altman, Daniel E.
ADDRESS: 115
REFERENCE/DOCKET NUMBER: NIH001.001A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 714-760-0404
TELEFAX: 714-760-9502
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 8082 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human
IMMEDIATE SOURCE:
CLONE: C-Myc Genomic Clone
US-08-187-785-1
Query Match 3.8% Score 22; DB 1; Length 8082;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 6246 AAAAAAAAAAAAAAAAAAAAAA 6225
OY 554 aaaaagaaataaaaaaa 575
PCT-US93-06251-28/C
Sequence 28, Application PC/T039306251
GENERAL INFORMATION:
APPLICANT: Wickstrom, Eric and Rife, Jason P.
TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER

STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06251
FILING DATE: 19930630
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Digi110, Frank S.
REFERENCE/DOCKET NUMBER: 8586
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 8082 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
MOLECULE TYPE: DNA (genomic)
PCT-US93-06251-28
Query Match 3.8% Score 22; DB 5; Length 8082;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 554 aaaaagaaataaaaaaa 575
ED 6246 AAAAAAAAAAAAAAAAAAAAAA 6225
RESULT 14
US-03-248-178-65-1/C
Sequence 1, Application US/08011566
Patent No. 6127116
GENERAL INFORMATION:
APPLICANT: Rice, Charles et al.
TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jackson, Esq.
STREET: 411 Hackensack Ave. Continental Plaza, 4th
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/611,566
FILING DATE: 03-MAR-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1113-1-006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800

Wed May 1 07:51:20 2002

us-09-248-178-65.rni

Page 8

APPLICANT: Michael D. Shay
APPLICANT: Jerry W. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF CONDITIONS
TITLE OF INVENTION: RELATED TO TELEPHONE LENGTH AND/OR
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP CODE: 90071-5746
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/060,952C
FILING DATE: May 13, 1993
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/882,438
FILING DATE: May 13, 1992
APPLICATION NUMBER: 08/038,766
FILING DATE: March 21, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Wardburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 202/945
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: 67-3910
TELEX: 95-0410
INFORMATION FOR SEO ID NO.: 43:
LENGTH: 157
TYPE: nucleic acid
STANDARDNESS: single
TOPOLOGY: linear
US-08-060-952C-43

```

Query Match Similarity      3.7%   Score 21:    D5 1:
Best Local Similarity      100.0%   Length 157:
                        Pred. NO. 1.v:
Matches      21: Conservative      0: Mismatches      0: Indels      0: Gaps      0:
QY          555 aaagaagaaataaaaaaaa 575
                |||..|||.....|
Db           128 AAAAGCAAAATTAATTTT 148
                                |||..|||.....|

US-08-151-477A-27 RESULT_18
Sequence_27 Application US/08151477A
ID: 151477A
GENERAL INFORMATION:
APPLICANT: Michael D. Mast
APPLICANT: Jerry W. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
APPLICANT: Nam Woo Kim
APPLICANT: Christopher L. Weisley
APPLICANT: Scott L. Weinfrich
APPLICANT: Catherine Strahl
APPLICANT: Michael J. McEachern
TITLE OF INVENTION: Homoyoun Vaziri
                    THERAPY AND DIAGNOSIS OF

```

TITLE OF INVENTION: CONDITIONS RELATED TO TELEPHONE
 TITLE OF INVENTION: LENGTH AND/OR TELEPHONE ACTIVITY
 NUMBER OF SEQUENCES: 58
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 CITY: Suite 4700
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP CODE: 90071
 COMPILED READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 144 MB
 MEDIUM TYPE: storage
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: IBM P.C. LOS 5.0
 SOFTWARE: FastSEO Version 1.5
 CURRENT APPLICATION NUMBER: US/08/151,477A
 APPLICATION NUMBER: 05/08/151,477A
 FILING DATE: NO. 5810644ember 12, 1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/038,766
 FILING DATE: March 24, 1993
 ATTORNEY/AGENT INFORMATION:
 NAME: R. Auldou, Attorneys
 ADDRESS: 1000 Wilshire Blvd., 1327
 REFERENCE/AGENT NUMBER: 202/7185
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEX: 67-3510
 INFORMATION FOR SEQ ID NO.: 27:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 157
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear

```

Query Match.          3.7%; Score 21; Lb 4; Length 157;
Best Local Similarity 100.0%; Fred. No. 1.5;
Matches   21; Conservative 0; Mismatches      0; Indels    0; Gaps     0;
C#       555 aaabgaabaaabaaaabaaba 575
E#       126 AAGGAAAGGAGGGAGGAGGAGGAG 116

RESULT 19
US-08-619-667-57
Sequence 57, Application US/08819867
Patent No. 6007989
GENERAL INFORMATION:
APPLICANT: Michael D. West.
APPLICANT: Calvin B. Hartley
APPLICANT: Scott L. Weinglich
APPLICANT: Christine Knechtel
APPLICANT: Michael J. Meschenen
APPLICANT: Jerry Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth H. Blackbourr
APPLICANT: Nam Woo Kim
APPLICANT: Homayoon Vaziri
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: CONDITIONS RELATED TO
TITLE OF INVENTION: TELOMERE LENGTH AND/OR
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
SUITE: Suite 4700

```

Wed May 1 07:51:20 2002

us-09-248-178-65.rn1

Page 9

City: Los Angeles
State: California
Country: U.S.A.
Zip: 90071-2066
Computer Readable Form:
Medium Type: 3.5" Diskette, 1.44 Mb
Medium Type: Storage
Computer: IBM Compatible
Operating System: IBM P.C. DOS 5.0
Software: FASTSEQ for Windows 2.0
Current Application Data: US/08/815.867
Application Number: 08/153.051
Filing Date: 12, 1993
Classification: 435
Prior Application Data:
Application Number: 08/153.051
Filing Date: No. 600798September 12, 1993
Application Number:
Filing Date:
Attorney/Agent Information:
Name: Chemoets, Daniel M.
Registration Number: 31,541
Residence: 524/222
Telecommunication Information:
Telephone: (213) 489-1600
Telefax: (213) 955-0440
Telex: 67-3510
Information for SEQ ID NO: 57:
Sequence Characteristics:
Length: 158 base pairs
Type: nucleic acid
Strandedness: single
Topology: linear
US-08-819-867-57

Query Match 3.7%: Score 21; DB 3; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 555 aaaggaagaaagaaagaaagaa 575
DB 128 AAGAGGAGGAGGAGGAGGAGGAGG 148

RESULT 20
US-09-040-984-82
Sequence 82, Application US/0904984
Patent No. 6210883
GENERAL INFORMATION:
Applicant: Reed, Steven G.
Title of Invention: COMPOUNDS AND METHODS FOR DIAGNOSIS
AND TREATMENT OF LUNG CANCER
Number of Sequences: 186
Correspondence Address:
Addressee: SEED AND BERRY LLP
Street: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
State: WA
Country: USA
Zip: 98104
Computer Readable Form:
Medium Type: 3.5" Diskette
Computer: IBM Compatible
Operating System: DOS
Software: FASTSEQ for Windows Version 2.0
Current Application Data:
Application Number: US/09/040.984
Filing Date: 18-MAR-1998
Classification:
Attorney/Agent Information:
Name: MAKI, David J.

Registration Number: 31,154
Reference/LOCKET Number: 210121.456
Telecommunication Information:
Telephone: 206-622-4400
Telefax: 206-282-6031
Telex:
Information for SEQ ID NO: 82:
Sequence Characteristics:
Length: 217 base pairs
Type: nucleic acid
Strandedness: single
Topology: linear
US-09-040-984-82

Query Match 3.7%: Score 21; DB 4; Length 217;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 555 aaaggaagaaagaaagaaagaa 575
DB 150 AAGAGGAGGAGGAGGAGGAGGAGG 210

RESULT 21
US-08-916-576B-3
Sequence 3, Application US/0816576B
Patent No. 6171815
GENERAL INFORMATION:
Applicant: YU, GUO-LIANG
Title of Invention: NOVEL HUMAN GROWTH FACTORS
Number of Sequences: 45
Correspondence Address:
Addressee: STERN, KESSLER, GOLUSTEIN & FOX, P.L.L.C.
Street: 1100 NEW YORK AVENUE, SUITE 600
City: Washington
State: DC
Country: US
Zip: 20005-3531
Computer Readable Form:
Medium Type: Floppy disk
Computer: IBM PC Compatible
Operating System: PC-DOS/MS-DOS
Software: PatentIn Release #1.0, Version #1.30
Current Application Data:
Application Number: US/08/916.576B
Filing Date:
Classification: 536
Prior Application Data:
Application Number: US 60/024.347
Filing Date: 23-MAR-1996
Attorney/Agent Information:
Name: STEPE, ERIC K.
Registration Number: 36,688
Reference/LOCKET Number: 1486.0500061
Telecommunication Information:
Telephone: (202) 371-2600
Telefax: (202) 371-2540
Information for SEQ ID NO: 3:
Sequence Characteristics:
Length: 143 base pairs
Type: nucleic acid
Strandedness: double
Topology: linear
Feature:
Molecule Type: cDNA
Name/Key: CUS
Location: 88..603
Feature:
Name/Key: mat_peptide

Wed May 1 07:51:20 2002

us-09-248-178-65.rml

Page 10

LOCATION: 157.603
FEATURE: 519-peptide
SEQUENCE: 86.156
LOCATION: 86.156
US-08-916-5768-3

Query Match 3.7%; Score 21; DB 4; Length 1423;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 555 aaaggaagaaagaaagaaagaa 575
DD 1400 AAGAGAGAGAGAGAGAGAGAG 1420

RESULT 22
US-09-056-105-23
Sequence 23; Application US/09056105
Patent No. 6287569
GENERAL INFORMATION:
APPLICANT: KIPPEY, THOMAS J.
APPLICANT ADDRESS: 10000 VACCINES WITH ENHANCED INTRACELLULAR
TITLE OF INVENTION: PROCESSING
FILE REFERENCE: 231/221
CURRENT APPLICATION NUMBER: US/09/056.105
CURRENT FILING DATE: 1998-04-06
EARLIER APPLICATION NUMBER: 60/043.467
EARLIER FILING DATE: 1997-04-10
NUMBER OF SEQ ID NOS: 35
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 1821
LENGTH: 1421
TYPE: DNA
ORGANISM: Homo sapiens
US-09-056-105-23

Query Match 3.7%; Score 21; DB 4; Length 1821;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 555 aaaggaagaaagaaagaaagaa 575
DD 932 aaaggaagaaagaaagaaagaa 952

RESULT 23
US-08-437-027-18
Sequence 18; Application US/08437027
Patent No. 5670317
GENERAL INFORMATION:
APPLICANT: GORDON, WILLIAM
APPLICANT ADDRESS: 11000 VACCINES WITH ENHANCED INTRACELLULAR
TITLE OF INVENTION: SMALL ROUND CELL TUMOR
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10016
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/437.027
FILING DATE:

CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: WHITE, JOHN P.
FIRM: WHITE, JOHN P.
REFERENCE/DOCKET NUMBER: 4616/JW/CDA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-391-0525
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 2412 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLCELL TYPE: CDNA to mRNA
US-08-437-027-18

Query Match 3.7%; Score 21; DB 1; Length 2412;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 555 aaaggaagaaagaaagaaagaa 575
LD 2391 AAGAGAGAGAGAGAGAGAGAG 2411

RESULT 24
US-08-851-845-1
Sequence 1; Application US/08851845
Patent No. 6056873
GENERAL INFORMATION:
APPLICANT: Schaefer, Gabriele M.
APPLICANT ADDRESS: 10000 VACCINES WITH ENHANCED INTRACELLULAR
TITLE OF INVENTION: SMALL ROUND CELL TUMOR
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 MB floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Minipain (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851.845
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/021640
FILING DATE: 1997/02/26
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
FIRM: Lee, Wendy M.
REFERENCE/DOCKET NUMBER: 40.378
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225.1994
TELEFAX: 415/952-9881
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2412 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-851-845-1

Query Match 3.7%; Score 21; DB 3; Length 3111;

Wed May 1 07:51:20 2002

us-09-248-178-65.in1

Page 11

Best Local Similarity 100.0%; Prod. No. 1.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 555 aaaaagaaaaa 575
DB 3091 AAAAGAAAAA 3111

RESULT 25
US-08-619-5428-30
Sequence 30, Application US/086195428
Patent No. 5810662

GENERAL INFORMATION:
INVENTOR: The University of Columbia University in the City
APPLICANT: of New York
TITLE OF INVENTION: METHOD FOR CONSTRUCTION OF NORMALIZED
NUMBER OF SEQUENCES: 78
CORRESPONDENCE ADDRESS:
ADDRESS: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentia Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/619,5428
FILING DATE: June 21, 1996
CLASSIFICATION: 3.5, 1996
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 42840-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 351-0525
TELEX:

INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 575 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
US-08-619-5428-30

Query Match 3.5%; Score 20; Db 2; Length 339;
Best Local Similarity 100.0%; Prod. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaaaagaaaaa 575
DB 317 AAAAGAAAAA 398-

RESULT 26
US-09-328-111-25/C
Sequence 25, Application US/09328111
Patent No. 6262333
GENERAL INFORMATION:
INVENTOR: Sheng, Wilson O.
APPLICANT: Sheng, Wilson O.
APPLICANT: Asif, Jon R.
APPLICANT: Burgess, Christopher C.
APPLICANT: Bushnell, Steven E.
APPLICANT: Carroll III, Eddie
APPLICANT: Catino, Theodore J.

APPLICANT: Dertl, Arnan
APPLICANT: Ford, Donald M.
APPLICANT: Hsu, Michael E.
APPLICANT: Keshavan, John E.
APPLICANT: Schlegel, Robert
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
FILE REFERENCE: COD-257 (US)
CURRENT FILING DATE: 1999-06-08
EARLIER FILING DATE: 1998-06-10
INVENTOR: FEO, JAMES
SOFTWARE: PESTSEQ for Windows Version 3.0
SEQ ID NO 25
TYPE: DNA
LENGTH: 413
ORGANISM: Homo sapiens
US-09-328-111-25

Query Match 3.5%; Score 20; Db 4; Length 413;
Best Local Similarity 100.0%; Prod. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaaaagaaaaa 575
DB 39 AAAAGAAAAA 20

RESULT 27
US-08-036-555B-133
Sequence 133, Application US/08036555B
Patent No. 5531030
GENERAL INFORMATION:
INVENTOR: Goodheart, Andrew; Strouckart, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchionni, Mark;
APPLICANT: Chen, Miao Su; Hiles, Ian
TITLE OF INVENTION: Gli1 Mitogenic Factors, Their
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Feltz & Lynch
STREET: 605 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/036,555B
FILING DATE: 24-MAR-1993
CLASSIFICATION: 3.5
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NUMBER: 07/965,173
PRIORITY APPLICATION DATE: 23-CC1-1992
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NUMBER: 07/940,389
PRIORITY APPLICATION DATE: 03-SEP-1992
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NUMBER: 07/907,136
PRIORITY APPLICATION DATE: 30-JUN-1992
PRIORITY APPLICATION DATA: 07/863,703
PRIORITY APPLICATION DATE: 03-APRIL-1992
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NUMBER: U.K. 91 07566.3
PRIORITY APPLICATION DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:

Wed May 1 07:51:20 2002

us-09-248-178-65.rn1

Page 13

SEQUENCE CHARACTERISTICS:
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-243-3228-133

Query Match 3.5%: Score 20; DB 1; Length 744;
Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaaggaagaaagaaagaaagaaagaa 575
|||||
DB 675 AAGCGAAGAAAGAAAGAAAGAAAGAA 694

RESULT 30
US-08-469-526A-133
Sequence 133, Application US/08469526A
Patent No. 5792819
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew
APPLICANT: Stroobant, Paul
APPLICANT: Miodetti, Luisa
APPLICANT: Materfield, Michael
APPLICANT: Matchionni, Mark
APPLICANT: Chen, Miao Su
APPLICANT: Hiles, Ian
TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
NUMBER OF SEQUENCES: 187
CORRESPONDENCE ADDRESS:
ADDRESS: 176 Federal Street
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: IBM Compatible
SOFTWARE: MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08469, 526A
FILING DATE: 06 June 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036, 555
FILING DATE: 24-MAR-1993
APPLICATION NUMBER: 07/965, 173
FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/940, 385
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/907, 138
FILING DATE: 03-JUN-1992
APPLICATION NUMBER: 07/863, 703
FILING DATE: 03-APR-1992
APPLICATION NUMBER: U.K. 91 07566, 3
FILING DATE: 10-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Biesker-Brady, Kristina
REGISTRATION NUMBER: 39,109
REFERENCE/DOCKET NUMBER: 04585/00200A
TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
INFORMATION FOR SEQ ID NO: 133:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single

LOCLOC: linear
US-08-469-526A-133
Query Match 3.5%: Score 20; DB 1; Length 744;
Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 556 aaaggaagaaagaaagaaagaaagaa 575
|||||
DB 675 AAGCGAAGAAAGAAAGAAAGAAAGAA 694

RESULT 31
US-08-734-591A-133
Sequence 133, Application US/08734591A
Patent No. 5854220
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew
APPLICANT: Stroobant, Paul
APPLICANT: Miodetti, Luisa
APPLICANT: Materfield, Michael
APPLICANT: Matchionni, Mark
APPLICANT: Chen, Miao Su
APPLICANT: Hiles, Ian
TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
NUMBER OF SEQUENCES: 187
CORRESPONDENCE ADDRESS:
ADDRESS: 176 Federal Street
STREET: 176 Federal Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
OPERATING SYSTEM: IBM Compatible Pentium
SOFTWARE: MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08734, 591A
FILING DATE: 22-OCT-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/470, 335
FILING DATE: 06-JUN-1995
APPLICATION NUMBER: 08/036, 555
FILING DATE: 03-MAR-1993
APPLICATION NUMBER: 07/965, 173
FILING DATE: 23-OCT-1992
APPLICATION NUMBER: 07/940, 385
FILING DATE: 03-SEP-1992
APPLICATION NUMBER: 07/907, 138
FILING DATE: 30-JUN-1992
APPLICATION NUMBER: 07/863, 703
FILING DATE: 03-APR-1992
APPLICATION NUMBER: U.K. 91 07566, 3
FILING DATE: 10-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Biesker-Brady, Kristina
REGISTRATION NUMBER: 39,109
REFERENCE/DOCKET NUMBER: 04585/00200P
TELEPHONE: (617) 428-0200
TELEFAX: (617) 428-7045
TELEX:

Wed May 1 07:51:20 2002

us-09-248-178-65.rn1

Page 15

Query Match 3.58: Score 20: DB 3: Length 744:
Best Local Similarity 100.0%: Pred. No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 556 aaaggaataaaataaa 575
|||||

DB 675 aaaggaataaaataaa 694

RESULT 35

US-08-735-021-133
Sequence 133: Application US/08735021B

Patent No. 6194377

GENERAL INFORMATION:

APPLICANT: GOODEARL, ANDREW

APPLICANT: STROBANT, PAUL

APPLICANT: MINGHETTI, LUISA

APPLICANT: WATERFIELD, MICHAEL

APPLICANT: MARCHIONNI, MARK

APPLICANT: CHEN, MARIO S.

APPLICANT: HILES, IAN

TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR

FILE REFERENCE: 01585/00200L

CURRENT APPLICATION NUMBER: US/08/735,021B

EARLIER FILING DATE: 1996-10-22

EARLIER APPLICATION NUMBER: 08/472,065

EARLIER FILING DATE: 1995-06-06

EARLIER APPLICATION NUMBER: 08/036,555

EARLIER FILING DATE: 1993-03-24

EARLIER APPLICATION NUMBER: 07/965,173

EARLIER FILING DATE: 1992-09-03

EARLIER APPLICATION NUMBER: 07/940,389

EARLIER FILING DATE: 1992-06-30

EARLIER APPLICATION NUMBER: 07/507,138

EARLIER FILING DATE: 1992-04-03

NUMBER OF SEQ ID NOS: 192

SEQUENCE: 192 SEQ ID NOS: 192

LENGTH: 744

TYPE: DNA

ORGANISM: Bos taurus

FEATURE:

NAME/KEY: CDS

LOCATION: (8)...(625)

US-08-735-021-133

Query Match 3.58: Score 20: DB 4: Length 744:
Best Local Similarity 100.0%: Pred. No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 556 aaaggaataaaataaa 575
|||||

DB 675 aaaggaataaaataaa 694

RESULT 36

US-08-735-664A-133
Sequence 133: Application US/08734664A

Patent No. 6200441

GENERAL INFORMATION:

APPLICANT: Goodearl, Andrew

APPLICANT: Stroobant, Paul

APPLICANT: Minghetti, Luisa

APPLICANT: Waterfield, Michael

APPLICANT: Marchionni, Mark

APPLICANT: Chen, Mario

APPLICANT: Hiles, Ian

TITLE OF INVENTION: CLIAL MITOGENIC FACTORS, THEIR
FILE REFERENCE: 01585/00200L
CORRESPONDENCE ADDRESS:
ADDRESSEE: CLAY & ELLING LLP
STREET: 176 Federal Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB

OPERATING SYSTEM: COMPATIBLE 386/486

SOFTWARE: FASTSeq Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/734,664A

FILING DATE: 22-OCT-1996

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/249,322

FILING DATE: 26-MAY-1994

APPLICATION NUMBER: 08/036,555

FILING DATE: 1993-03-24

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/965,173

FILING DATE: 23-OCT-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/540,389

FILING DATE: 03-SEP-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/907,138

FILING DATE: 30-JUN-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/963,703

FILING DATE: 03-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: UK 91 07566.3

FILING DATE: 10-APR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Bicker Brady, Kristina

REGISTRATION NUMBER: 39,109

TELEPHONE: (617) 428-0200

TELEFAX: (617) 428-7045

TELEX:

INFORMATION FOR SEQ ID NO: 133:

SEQUENCE CHARACTERISTICS:

LENGTH: 744

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-734-664A-133

Query Match 3.58: Score 20: DB 4: Length 744:
Best Local Similarity 100.0%: Pred. No. 4.6:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 556 aaaggaataaaataaa 575
|||||

DB 675 AAAGCAAAAAAAAAAAAA 694

RESULT 37

US-08-470-335-133
Sequence 133: Application US/08470335C

Patent No. 6232286

GENERAL INFORMATION:

APPLICANT: GOODEARL, ANDREW

APPLICANT: STROBANT, PAUL

Wed May 1 07:51:20 2002.

us-09-248-178-65.rml

Page 17

NAME: Hanson, Norman D.
REGISTRATION NUMBER: 30,946
REGISTRATION NUMBER: 5250.5
TELEPHONE: (212) 688-9200
TELEFAX: (212) 818-3884
INFORMATION FOR SEQ ID NO: 133
SEQUENCE CHARACTERISTICS:
LENGTH: 744
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US95-0886A-133

Query Match 3.5%: score 20; DB 5; Length 744;
Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 556 aaagaaaaaa 575
DB 675 AAGCAAAAAAAAAA 694

RESULT 40
US-09-248-335-55
Sequence 55, Application US/09248335
Patent No. 6096504
GENERAL INFORMATION:
APPLICANT: MCGONIGLE, BRIAN
TITLE OF INVENTION: PLANT GLUTATHIONE-S-TRANSFERASE ENZYMES
FILING DATE: 1999-02-10
CURRENT APPLICATION NUMBER: US/09/248,335
EARLIER FILING DATE: 1997-September-05
NUMBER OF SEQ ID NOS: 74
SOFTWARE: Microsoft Word Version 7.0A
SEQ ID NO 55
LENGTH: 934
TYPE: DNA
STRANDEDNESS: single
US-09-248-335-55

Query Match 3.5%: score 20; DB 3; Length 934;
Best Local Similarity 100.0%; Pred. No. 4.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 556 aaagaaaaaa 575
DB 912 aaagaaaaaa 931

RESULT 41
US-08-380-916-2
Sequence 2, Application US/08380916
Patent No. 5648478
GENERAL INFORMATION:
APPLICANT: Calydon, Inc.
TITLE OF INVENTION: Tissue-Specific Enhancer Active In
VIVO
FILING DATE: 1999-02-10
CURRENT APPLICATION NUMBER: 575
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fleiter, Hohbach, Test, Albritton & Herbert
CITY: San Francisco
STATE: CA
COUNTRY: US
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC COMPATIBLE
FILING SYSTEM: USPTO
FILING DATE: 12-JAN-1995
APPLICATION NUMBER: US/08/380,916
CLASSIFICATION: 424
FILING DATE: 13-JAN-1994
APPLICATION NUMBER: US/08/380,916
ATTORNEY/AGENT INFORMATION:
NAME: ROYAL, BERTMAN
REGISTRATION NUMBER: 160015
TELEPHONE: 415-781-1989
TELEFAX: 415-368-3245
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MEDIUM TYPE: DNA (genomic)
US-08-380-916-2

Query Match 3.5%: score 20; DB 1; Length 1192;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 556 aaagaaaaaa 575
DB 177 AAGCAAAAAAAAAA 196

RESULT 42
US-08-182-247-1
Sequence 1, Application US/08182247
Patent No. 5810656
GENERAL INFORMATION:
APPLICANT: HANSON, DANIEL R.
TITLE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE IN
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Kourie and Crew
STREET: 375 Lytton Avenue
CITY: Palo Alto
STATE: California
COUNTRY: US
ZIP: 94301
COMPUTER READABLE FORM:
FILING SYSTEM: IBM PC COMPATIBLE
FILING DATE: 1999-02-10
CURRENT APPLICATION NUMBER: 575
APPLICATION NUMBER: US/08/182,247
CLASSIFICATION: 576
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William R.
REGISTRATION NUMBER: 16444-1
TELEPHONE: (415) 326-2400
TELEFAX: (415) 326-2422
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

Wed May 1 07:51:20 2002

us-09-248-178-65.rni

Page 18

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
TISSUE TYPE: PROSTATE
US-08-182-247-1

Query Match 3.5% Score 20; DB 2; Length 1192;
Best Local Similarity 100.0%; Pct. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 556 aaagaaataaaaaaa 575
Db 177 AAAGCAAAAAAAAAA 156

RESULT 13
US-08-721-690-2
Sequence 2: Application US/08721690
Patent No. 6057299
GENERAL INFORMATION:
APPLICANT: Henderson, Daniel R.
TITLE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/721-690
FILING DATE: 27-SEP-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/380,916
FILING DATE: 30-JAN-1995
APPLICATION NUMBER: US 08/182,247
FILING DATE: 13-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Catherine, Polizzi M
REGISTRATION NUMBER: 40,130
PRACTICE NUMBER: 19802-20001.21
TELEPHONE: 415-813-5600
TELEFAX: 415-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-721-690-2

Query Match 3.5% Score 20; DB 3; Length 1192;
Best Local Similarity 100.0%; Pct. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 556 aaagaaataaaaaaa 575
Db 177 AAAGCAAAAAAAAAA 156

RESULT 14
US-08-891-561-2
Sequence 2: Application US/08891561
Patent No. 616792
GENERAL INFORMATION:
APPLICANT: Henderson, Daniel R.
TITLE OF INVENTION: TISSUE-SPECIFIC ENHANCER ACTIVE
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/891,561
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/380,916
FILING DATE: 30-JAN-1995
APPLICATION NUMBER: US 08/182,247
FILING DATE: 13-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Catherine, Polizzi M
REGISTRATION NUMBER: 40,130
PRACTICE NUMBER: 19802-20001.22
TELEPHONE: 415-813-5600
TELEFAX: 415-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1192 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-891-561-2

Query Match 3.5% Score 20; DB 3; Length 1192;
Best Local Similarity 100.0%; Pct. No. 4.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 556 aaagaaataaaaaaa 575
Db 177 AAAGCAAAAAAAAAA 156

RESULT 15
US-08-012-561-5
Sequence 2: Application US/0902553
Patent No. 623454
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Gueley, Neil C.
APPLICANT: Baugh, Mariah
TITLE OF INVENTION: HUMAN PROTEINASE MOLECULES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Inyte Pharmaceuticals, Inc.

us-09-248-178-65.rni

STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
CURRENTLY STORED FOR Windows Version 2.0
CURRENT APPLICATION: DATA
APPLICATION NUMBER: US/09/032.523

FLIGHT DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FLIGHT DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,749
TELEPHONE/DOCKET NUMBER: 4P-0479 US
TELEPHONE: 650-855-0553
TELEFAX: 650-854-4166
TELEX:

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1802 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-09-032-523-5

Search completed: April 30, 2002, 10:54:09
Job time: 10918 sec

Page 7

[illegible]

Page 2

```

1      LENGTH: 508
2      TYPE: LNA
3      ORGANISM: Homo sapiens
4      FEATURE:
5      NAME/KEY: misc_feature
6      LOCATION: (1)..(558)
7      OTHER INFORMATION: n = A,T,C or G
8      US-09-385-562-275
9
10     Query Match
11     Best Local Similarity 100.0% Pident No. 4 0:
12     Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps
13
14     905 aaagcagcaaaaaaaagaaagaa 924
15     111111111111111111111111111
16     Ed 2a AACGCAAAAAAAAAAAAAA 5
17
18 RESULT 4
19 US-08-670-126-14/C
20 Sequence 10: Application US/08670126
21 Patent No. 6,647,022
22 GENERAL INFORMATION:
23 APPLICANT: Pendergast, George C.
24 APPLICANT: Sakamoto, Daiichi
25 TITLE OF INVENTION: Murine and Human Box-Dependent
26 TITLE OF INVENTION: MYC-Interacting Protein (Bin1) and Uses Thereof
27 NUMBER OF SEQUENCES: 14
28 CORRESPONDENCE ADDRESS:
29 ADDRESSEE: Hoxson and Hoxson
30 Hoxson and Hoxson Corporate Cntr., P O Box 457
31 City: Spring House
32 State: Pennsylvania
33 COUNTRY: USA
34 ZIP: 15417
35
36 COMPUTER READABLE FORM:
37 MEDIUM TYPE: Floppy disk
38 COMPUTER: IBM PC compatible
39 OPERATING SYSTEM: DOS/MS-DOS
40 VERSION: 1.1, Release #1.0, Version #1.30
41 CURRENT APPLICATION NUMBER: US/08/670,126

```

```

Query Match: 100.0%; Score 20; Db 4; Length 588;
Best Local Similarity: 120.0%; Pctd. No. 4.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0-
C# 905 aaagcaaaaaaaadadadad 924
Db 26 AGGCGGAGGAGGAGGAGGAGGAGGAG 5

RESULT 4
US-08-870-126-1a/c
Sequence 10, Application US/08870126
Patent No. 6048702
GENERAL INFORMATION:
APPLICANT: Hoechst, George C.
APPLICANT: Sankyo, Daiichu
TITLE OF INVENTION: Marine and Human Box-Dependent
TITLE OF INVENTION: WPC-Interacting Protein (Bin1) and Uses Thereof;
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Hoechst and Hoechst
STREET: Spring House Corporate Cntr., P O Box 457
CITY: Spring House
STATE: Pennsylvania
COUNTRY: USA
ZIP: 15477
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA: base 11.0, version 11.30
APPLICATION NUMBER: US/08/870,126
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION NUMBER: US 08/435,454
FILING DATE: 09-MAY-1995
PRIOR APPLICATION NUMBER: US 08/552,572
FILING DATE: 24-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Kofroff, Cathy A.
REGISTRATION NUMBER: 33,980
REFERENCE/DOCKET NUMBER: MST60CUSA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-540-5810
TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 3226 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
SOURCE: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: exon
LOCATION: 677..734
OTHER INFORMATION: /note="exon 3"
FEATURE:
NAME/KEY: exon
LOCATION: 831..945
OTHER INFORMATION: /note="exon 4"

```

FEATURE:
NAME/KEY: exon
LOCATION: 1408..1503
OTHER INFORMATION: /note= *exon 5*
FEATURE:
NAME/KEY: exon
LOCATION: 2473..2579
OTHER INFORMATION: /note= *exon 6*
US-08-870-126-10

Query Match 2.28: Score 20; Db 3; Length 1226;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 262 ttctcagagccctcagcttc 281
Db 1297 ttctcagagccctcagcttc 1278

RESULT 5
US-09-128-155-16/C
Sequence 16, Application US/09128155
Patent No. 6117654
GENERAL INFORMATION:
APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF TANC3-77 RELATED PROTEIN FAMILY
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128.155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-20
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 16
LENGTH: 152331
TYPE: DNA
ORGANISM: Homo sapiens
NAME/KEY: misc-feature
LOCATION: (1)---(152331)
OTHER INFORMATION: n - A.T.C of G
US-09-128-155-16

Query Match 2.28: Score 20; Db 3; Length 152331;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 905 aagcacaataaaaaaa 924
Db 8501 AAGCCAAAAA 8482

RESULT 6
US-09-128-155-17/C
Sequence 17, Application US/09128155
Patent No. 6117654
GENERAL INFORMATION:
APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF TANC3-77 RELATED PROTEIN FAMILY
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128.155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-20
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18

SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 17
LENGTH: 176373
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc-feature
LOCATION: (1)---(176373)
OTHER INFORMATION: n - A.T.C of G
US-09-128-155-17

Query Match 2.28: Score 20; Db 3; Length 176373;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 505 aagcacaataaaaaaa 924
Db 53713 AAGCCAAAAA 53654

RESULT 7
US-08-858-767-21
Sequence 21, Application US/08858767
Patent No. 5837468
GENERAL INFORMATION:
APPLICANT: WANG, Xun
APPLICANT: DUYCK, Jonathan P.
TITLE OF INVENTION: BRICS, Steven R.
TITLE OF INVENTION: METHOD
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5106
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/858.767
FILING DATE: 19-MAY-1997
CLASSIFICATION: 43
PARENT APPLICATION DATA:
APPLICATION NUMBER: US-08/481.687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33225/325/PT11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5500
TELEFAX: (202)672-5599
TELEX: 904116
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-858-767-21

Query Match 2.18: Score 15; Db 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 506 aagcacaataaaaaaa 924

Wed May 1 07:51:05 2002

US-09-248-178-62.rnt

Page 4

Db 7 AGCMAAAAAAAAAAAAAA 25

RESULT 8

US-08-858-767-22

Sequence 22, Application US/08858767

Patent No. 5837468

GENERAL INFORMATION:

APPLICANT: MANG, Xun

INVENTOR: MANG, Jonathan P.

APPLICANT: BRIGGS, Steven P.

TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING

TITLE OF INVENTION: METHOD

NUMBER OF SEQUENCES: 39

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

CLASSIFICATION:

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 08/481,687

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 39,768

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5399

TELEFAX: (202)672-5399

TELEX: 904116

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-858-767-22

Query Match

Best Local Similarity 100.0% Pred. No. 14

Matches 19: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 906 aggcataaaaaaaaaa 924

Db 7 AGCMAAAAAAAAAAAAAA 25

RESULT 9

US-08-858-767-23

Sequence 23, Application US/08858767

Patent No. 5837468

GENERAL INFORMATION:

APPLICANT: MANG, Xun

INVENTOR: MANG, Jonathan P.

APPLICANT: BRIGGS, Steven P.

TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING

TITLE OF INVENTION: METHOD

NUMBER OF SEQUENCES: 39

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

CLASSIFICATION:

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 08/481,687

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 39,768

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5399

TELEFAX: (202)672-5399

TELEX: 904116

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-858-767-23

Query Match

Best Local Similarity 100.0% Pred. No. 14

Matches 19: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 906 aggcataaaaaaaaaa 924

Db 7 AGCMAAAAAAAAAAAAAA 25

RESULT 10

US-08-858-767-21

Sequence 21, Application US/08858767

Patent No. 5837468

GENERAL INFORMATION:

APPLICANT: MANG, Xun

INVENTOR: MANG, Jonathan P.

APPLICANT: BRIGGS, Steven P.

TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING

TITLE OF INVENTION: METHOD

NUMBER OF SEQUENCES: 39

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

CLASSIFICATION:

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 08/481,687

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 39,768

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5399

TELEFAX: (202)672-5399

TELEX: 904116

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/858,767

FILING DATE: 19-MAY-1997

CLASSIFICATION: 435

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 08/481,687

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 39,768

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5399

TELEFAX: (202)672-5399

TELEX: 904116

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

Wed May 1 07:51:05 2002

us-09-248-178-62.rn1

Page 5

APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 33229/329/PIH1
REFERENCE/DOCKET NUMBER: 33229/329/PIH1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-863-028-21

Query Match 2.1% Score 19; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 906 agcccaaaaaaaaaaaaaa 924
DB 7 acccaaaaaaaaaaaaaa 25

RESULT 11
US-08-863-028-22
Sequence 22, Application US/08863028
Patent No. 5653591
GENERAL INFORMATION:
APPLICANT: WANG, Xun
APPLICANT: DUVICK, Jonathan P.
TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING
TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentia Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,028
PRIORITY APPLICATION DATA:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/858,767
FILING DATE: 19-MAY-1997
APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/329/PIH1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
US-08-863-028-22
Query Match 2.1% Score 19; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 906 agcccaaaaaaaaaaaaaa 924
DB 7 acccaaaaaaaaaaaaaa 25

RESULT 13
US-08-863-028-23
Sequence 23, Application US/08863028
Patent No. 5653591
GENERAL INFORMATION:
APPLICANT: WANG, Xun
APPLICANT: DUVICK, Jonathan P.
TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING
TITLE OF INVENTION: PCR-BASED CDNA SUBTRACTIVE CLONING
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentia Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,028
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/858,767
FILING DATE: 19-MAY-1997
APPLICATION NUMBER: US 08/481,687
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/329/PIH1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-863-028-23

Query Match 2.1% Score 19; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 906 agcccaaaaaaaaaaaaaa 924
DB 7 acccaaaaaaaaaaaaaa 25

RESULT 13
US-09-248-335-25

Wed May 1 07:51:05 2002

us-09-248-178-62.rn1

Page 10

TELEFAX: (703)413-2220
INFORMATION FOR SEQ ID NO: 85:
SEQUENCE CHARACTERISTICS:
LENGTH: 57 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
US-08-478-675-85

Query Match 1 9% Score 18: Db 1: Length 57:
Best Local Similarity 100.0%: Freq. No. 36:
Matches 18: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Db 36 GCGCAAAAAAAAAAAAAA 53

RESULT 23
US-08-721-488-4
Sequence 1: Application US/08721488
Patent No. 5965388

GENERAL INFORMATION:
APPLICANT: McCoy, John
APPLICANT: Lavalley, Edward
APPLICANT: Racie, Lisa
APPLICANT: Merberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Boman, Michael
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES
TITLE OF INVENTION: ENCODING THEM
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 CambridgePark Drive
CITY: Cambridge
STATE: Massachusetts
ZIP: 02140

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/721,488
CLASSIFICATION:
FILING DATE: 03-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 33,724
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 308 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-721-488-4

Query Match 1 9% Score 18: Db 2: Length 308:
Best Local Similarity 100.0%: Freq. No. 36:
Matches 18: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

507 GCGCAAAAAAAAAAAAAA 924
266 GCGCAAAAAAAAAAAAAA 263

US-08-943-731-157
Sequence 157: Application US/08943731
Patent No. 6265157

GENERAL INFORMATION:
APPLICANT: BROCKOP, DARWIN J.
APPLICANT: SPOTILA, LORETTA D.
APPLICANT: DELIAS, CONSTANTINOS D.
APPLICANT: BEREDA, LARISSA N.
APPLICANT: PACE, MICHAEL
APPLICANT: COLIGE, ALAIN
APPLICANT: EARLY, JAMES
APPLICANT: KORKKO, JARMO
APPLICANT: ALA-KORKO, LEENA, et al.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
TITLE OF INVENTION: ALTERED TYPE I OR TYPE IX COLLAGEN GENE SEQUENCES
NUMBER OF SEQUENCES: 666
CORRESPONDENCE ADDRESS:
ADDRESSEE: PATENT SCHWARZ JACOBS & NUDEL, P.C.
STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
CITY: PHILADELPHIA
STATE: PA
COUNTRY: USA
ZIP: 19103-7066

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,731
FILING DATE: 03-OCT-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,322
FILING DATE: 12-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/603,626
FILING DATE: 03-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: DOYLE LEARY Ph.D., KATHRYN
REGISTRATION NUMBER: 36,317
REFERENCE/DOCKET NUMBER: 9556-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-565-1284
TELEFAX: 215-567-2991
CLASSIFICATION:
FILING DATE: 03-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 33,724
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 343 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-943-731-157

Query Match 1 5% Score 15: Db 4: Length 343:
Best Local Similarity 100.0%: Freq. No. 35:
Matches 18: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Page 15

```

?      LENGTH: 1333 base pairs
?      STRAIN: CDC-6810
?      SPECIES: Mycobacterium tuberculosis
?      TOPOLOGY: linear
?      MOLECULE TYPE: CDNA
?      FEATURE:
?      NAME/REV: CDS
?      LOCATION: 2..1035
?      US-06-073-297-1

Query Match          1.9%   Score 16:    Eb 4:   Length 1333:
Best Local Similarity 100.0%   Pred. No. 33:
Matches 16: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY       507  GGCAAGAAATGAAAAAATAA 524
           |||||||
DD       1313  GGCAAAAAAAAAAAAAAAA 1330

RESULT 36
US-06-631-200-14
US-06-631-14 Application US/06631200
Patient No. 15646040
GENERAL INFORMATION:
Applicant: Kiehn, Patrick W.
```

RESULT 36
 US-08-631-200-14
 Sequence 14, Application US/08631200
 Patent No. 5646040
 GENERAL INFORMATION:
 APPLICANT: Kiehn, Patrick W.
 APPLICANT INVENTOR: Karen J.
 TITLE OF INVENTION: POSITIONS FOR THE TREATMENT AND
 TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS,
 NUMBER OF SEQUENCES: 59
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pennie & Edmonds
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York

```

1 SOFTWARE: PatentIn Release 11.0, Version #1.30
2
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: US/08/631,200
5 FILING DATE: 12-APR-1956
6
7 CLASSIFICATION: 435
8
9 ATTORNEY/AGENT INFORMATION:
10 NAME: Goetzlitz, Laura A.
11 REFERENCE NUMBER: 00,742
12 REFERENCE/EXCERPT NUMBER: 16853-057
13 TELECOMMUNICATION INFORMATION:
14 TELEPHONE: (212) 790-9050
15 TELEFAX: (212) 669-9741/8664
16 TELEX: 66143 PENNIE
17
18 INFORMATION FOR SEQ ID NO: 14:
19
20 SEQUENCE CHARACTERISTICS:
21 LENGTH: 1338 base pairs
22 TYPE: nucleic acid
23 STRANDEDNESS: unknown
24 TOPOLOGY: unknown
25
26 MOLECULE TYPE: DNA (genomic)
27
28 FEATURE:
29 NAME/KEY: CDS
30 LOCATION: 1..655
31 US-08-631-200-14
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
99
```

Wed May 1 07:51:05 2002

Db 1306 GGCAAAAAAAAA 1323

RESULT 39

US-06-029-003-14
; Sequence 14, A; Patent No. 5817762
; GENERAL INFORMATION:

APPLICANT: Kleya, Patrick W.
APPLICANT: Moore, Karen J.

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND PREVENTION OF HIV INFECTION

;; TITLE OF INVENTION
; NUMBER OF SEQUENCES

CORRESPONDENCE ADDRESS:
ADDRESSEE: People & Edmonds

STREET: 1155 Avenue of the Americas
CITY: New York

STATE: New York

COUNTRY: U.S.A.
ZIP: 10036-2711

COMPUTER READABLE
MEDIUM TYPE: F1

COMPUTER: IBM F

OPERATING SYSTEM SOFTWARE: Paten

```

; CURRENT APPLICATION NUMBER
; APPLICATION NUMBER

```

FILING DATE: 26
CLASSIFICATION:

CLASSIFICATION:
PRIOR APPLICATION

APPLICATION NUMBER: 12
FILING DATE: 12

ATTORNEY/AGENT INFORMATION
NAME: CORUZZI

[illegible]; REFERENCE/DOCUMENT
; TELECOMMUNICATIONTELEPHONE: (212) 351-1000
TELEFAX: (212) 351-1000

TELEX: 66141 P
INFORMATION FOR SEC

SEQUENCE CHARACTERISTICS

```

; LENGTH: 1338 Dec
; TYPE: nucleic acid
;

```

STRANDEDNESS: unknown
TOPOLOGY: unknown

MOLECULE TYPE: DI
FEATURES:

NAME/KEY:	CDS
FEAURE:	

```

; LOCATION: 1..6:
US-08-829-553-14

```

Query Match

Best Local Similitude
Matches 18; Consequence

QV 507 qqcaaaaaaaa

DB 1305 GGCAAAAAAAAA

2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525
 526

RESULT 40

US-08-922-267A-14
: Sequence 14, Apollica

Patent No. 5861239

GENERAL INFORMATION
APPLICANT: Kleyon

APPLICANT: MOORE
TITLE OF INVENTION

TITLE OF INVENTION
NUMBER OF SEQUENCES

NUMBER OF SEQUENCES
CORRESPONDENCE ADDRESS

Wed May 1 07:51:05 2002

us-09-248-178-62.rml

XX cDNA sequence of human breast tumour clone 101562.
XX
XX Human Breast tumour antigen: Cytostatic Immunotherapy;
AM Breast Cancer Vaccine; SS.
XX
XX Tissue samples.
OS
XX H-20061756-A2.
FN
XX
XX OCT-2000.
PD
XX
XX APR-2000; 2000MC-US95668.
XX
XX JAFR-1995; 59US-0268650.
PR
XX JUL-1995; 59US-0346327.
XX
XX
PA JARI CORINA CORP.
XX
XX
XX et al.; Xu J. BILTON DC;
F1
XX
XX H-2000-12625e/G1.
ER
XX
XX
XX F1 Model isolated polypeptide comprising an immunogenic portion of a breast cancer protein useful in the detection and treatment of breast cancer.
F1
XX
XX Abstract.
PS Claim 4; page 73; 95pp. English.
XX
XX The present sequence was isolated from a breast tumour cDNA library. It provides a specification relating to compounds for immunotherapy and diagnosis of breast cancer. Breast tumour antigens and the nucleic acids that encode them may be used in the production of a pharmaceutical composition to be used in the treatment of breast cancer. Differentiated cells and incubated antigen presenting cells are also required. The polypeptides and polynucleotides may also be used to produce a vaccine.
XX
XX Sequence 550 BP; 197 A; 82 C; 80 G; 231 T; 0 other;
XX

[illegible]

PR 23-MAY-1997: 97US-0047598
 PR 23-MAY-1997: 97US-0047599
 PR 23-MAY-1997: 97US-0047600
 PR 23-MAY-1997: 97US-0047601
 PR 23-MAY-1997: 97US-0047612
 PR 23-MAY-1997: 97US-0047613
 PR 23-MAY-1997: 97US-0047614
 PR 23-MAY-1997: 97US-0047615
 PR 23-MAY-1997: 97US-0047617
 PR 23-MAY-1997: 97US-0047618
 PR 23-MAY-1997: 97US-0047632
 PR 23-MAY-1997: 97US-0047633
 PR 06-JUN-1997: 97US-0048974
 PR 22-AUG-1997: 97US-0056530
 PR 22-AUG-1997: 97US-0056531
 PR 22-AUG-1997: 97US-0056532
 PR 22-AUG-1997: 97US-0056536
 PR 22-AUG-1997: 97US-0056562
 PR 22-AUG-1997: 97US-0056564
 PR 22-AUG-1997: 97US-0056645
 PR 22-AUG-1997: 97US-0056862
 PR 22-AUG-1997: 97US-0056872
 PR 22-AUG-1997: 97US-0056874
 PR 22-AUG-1997: 97US-0056875
 PR 22-AUG-1997: 97US-0056876
 PR 22-AUG-1997: 97US-0056877
 PR 22-AUG-1997: 97US-0056878
 PR 22-AUG-1997: 97US-0056879
 PR 22-AUG-1997: 97US-0056880
 PR 22-AUG-1997: 97US-0056881
 PR 22-AUG-1997: 97US-0056882
 PR 22-AUG-1997: 97US-0056884
 PR 22-AUG-1997: 97US-0056885
 PR 22-AUG-1997: 97US-0056887
 PR 22-AUG-1997: 97US-0056888
 PR 22-AUG-1997: 97US-0056889
 PR 22-AUG-1997: 97US-0056892
 PR 22-AUG-1997: 97US-0056893
 PR 22-AUG-1997: 97US-0056894
 PR 22-AUG-1997: 97US-0056895
 PR 22-AUG-1997: 97US-0056896
 PR 22-AUG-1997: 97US-0056897
 PR 22-AUG-1997: 97US-0056910
 PR 05-SEP-1997: 97US-0056911
 PR 05-SEP-1997: 97US-0057850
 PR 05-SEP-1997: 97US-0057751
 XX
 XX (HUMAN) HUMAN GENOME SCI INC.
 XX
 PR Bedekar DP, Brewer LA, Carter KC, Duan P, Ebnor R, Endress CA,
 PI Fischler AM, Fischer CL, Graves RA, Greene JM, Hu JS,
 PI Kray H, Lafferty DM, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA,
 PI Ribben SM, Shi Y, Soppet DP, Young PE, Yu GL, Zeng Z:
 XX WPI: 1998-609887/51.
 DR P-PSDB: AAW75138.
 XX
 PR New isolated human genes and the secreted polypeptides they encode
 PI are useful for diagnosis and treatment of e.g. cancers, neurological
 PI disorders, immune diseases, inflammation or blood disorders
 XX
 PR Claim 1: Page 234-235, 447pp: English.
 XX
 CC This sequence represents a nucleic acid molecule which encodes a
 CC secreted human protein. The gene number, and the clone it is derived
 CC from, are detailed in the descriptor line. The gene can be used to
 CC generate fusion proteins by linking to the gene to a human immunoglobulin
 CC Fc portion (e.g. AAW34145) for increasing the stability of the fused
 CC protein as compared to the human protein only.
 CC The invention relates to 70 novel genes and their fragments (nucleic

CC acid sequences: AAW34154-V34276: amino acid sequences AAW75057-W75179)
 CC which are useful for prevention, treating or ameliorating medical
 CC conditions e.g. by protein or gene therapy. Also, pathological
 CC conditions can be diagnosed by determining the amount of the new
 CC polypeptides in a sample or by determining the presence of mutations in
 CC the new polynucleotides. Specific uses are described for each of the 70
 CC polynucleotides, based on which tissues they are most highly expressed in
 CC (see AAW34154 for described uses).
 XX
 SO Sequence 1075 BP: 251'A: 308 C: 302 G: 212 T: 2 other:
 Query Match 3.7% Score 22: DB 19: Length 1075:
 Best Local Similarity 100.0% Pred. No. 14:
 Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
 CY 559 *atatttaaaaaaaaaaaaaa 590
 Db 1070 *atatttaaaaaaaaaaaaaa 1051

 RESULT 10
 AAW34159
 ID AAW34159 standard: DNA: 1105 BP.
 AC
 XX AAW34159:
 XX
 XX 28-JAN-1999 (first entry)
 XX
 XX
 DE Human secreted protein gene 16 clone HMANH07.
 XX
 KM Human: secreted protein: fusion protein: gene therapy: protein therapy:
 KM diagnostics: tissue: cancer: tumor: neurodegenerative disorder: leukemia:
 KM developmental abnormality: foetal deficiency: blood: allergy: renal: ds:
 KM immune system: asthma: lymphocytic disease: brain: hepatic: lymphoma:
 KM inflammation: ischaemic shock: Alzheimer's disease: restenosis: AIDS:
 KM cognitive disorder: schizophrenia: prostate: obesity: osteoarthritis: thymus:
 KM osteoporosis: arthritis: testis: lung: thyroiditis: thyroid: digestion:
 KM endocrine: metabolism: regulation: malabsorption: gastritis: neoplasm.
 XX
 CS Homo sapiens.
 XX
 XX MO9819145-A2.
 XX
 XX 11-SEP-1998.
 XX
 XX
 PF 05-MAR-1998: 98WO-US04492.
 XX
 XX 07-MAR-1997: 97US-0038621.
 PR 07-MAR-1997: 97US-0040161.
 PR 07-MAR-1997: 97US-0040162.
 PR 07-MAR-1997: 97US-0040163.
 PR 07-MAR-1997: 97US-0040333.
 PR 07-MAR-1997: 97US-0040334.
 PR 07-MAR-1997: 97US-0040336.
 PR 07-MAR-1997: 97US-0040526.
 PR 11-APR-1997: 97US-0043311.
 PR 11-APR-1997: 97US-0043312.
 PR 11-APR-1997: 97US-0043313.
 PR 11-APR-1997: 97US-0043314.
 PR 11-APR-1997: 97US-0043315.
 PR 11-APR-1997: 97US-0043558.
 PR 11-APR-1997: 97US-0043559.
 PR 11-APR-1997: 97US-0043560.
 PR 11-APR-1997: 97US-0043576.
 PR 11-APR-1997: 97US-0043578.
 PR 11-APR-1997: 97US-0043580.
 PR 11-APR-1997: 97US-0043589.
 PR 11-APR-1997: 97US-0043590.
 PR 11-APR-1997: 97US-0043591.
 PR 11-APR-1997: 97US-0043592.
 PR 11-APR-1997: 97US-0043593.
 PR 11-APR-1997: 97US-0043594.
 PR 23-MAY-1997: 97US-0047500.
 PR


```

PF      10-FEB-1986;    B5E7-0300894.
XX
XX      12-FEB-1985;    B5U5-0700775.
XX
XX      (GETH ) GENETECH INC.
XX
XX      Bell JR., Ulrich A., Pamechandran J:
XX
XX      WPI: 1986-226966/35.
XX
XX      R-PSDB: AAP60005.
XX
XX      New DNA encoding insulin receptor or its fragments - used for
XX      synthesis of receptor and mutants for therapeutic and diagnostic
XX      use
XX
XX      Disclosure: Fig 1B: 62pp: English.
XX
XX      A mutant IR is claimed which may have a mutated alpha-chain, esp. at
XX      the precursor processing site. The beta-chain may be mutated, e.g.
XX      by deletion of the transmembrane sequence: the tyrosine kinase
XX      activity may be inactivated. Fig. 5 is a comparison of oncogene and
XX      human EGF receptor sequences with that of IIR in the cytoplasmic
XX      domain of the insulin receptor beta subunit.
XX
XX      Sequence 5198 BP: 1237 A: 1363 C: 190 G: 1208 T: 0 other:
XX
XX      Query Match
XX      Best Local Similarity 13.7%; Score 22; DB 7; Length 5198;
XX      Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX      5173 catatttaaaaaaaaaaaaaaa 590
XX          |||||||
XX      5173 catatttaaaaaaaaaaaaaaa 5194
XX
XX      RESULT 12
XX      AAF97854
XX      ID AA97854 standard; DNA; 34488 BP.
XX
XX      AAF97854:
XX
XX      UT 31-MAY-2001 (first entry)
XX
XX      Human neuroblastoma cell line NB-1 Ip35 nucleotide sequence SEQ ID NO:46.
XX
XX      Human chromosome 1: lp35: neuroblastoma cell line: NB-1: anticancer:
XX      tumour suppressor: human Ip35 homozygosity deletion domain: tumour:
XX      diagnosis: ds.
XX
XX      Homo sapiens.
XX
XX      NCBI
XX      MO200116311-A1.
XX
XX      08-MAR-2001.
XX
XX      31-AUG-2000: 2000MO-JP09330.
XX
XX      31-AUG-1999: 99JP-02459652.
XX
XX      09-MAY-2000: 2000JP-136266.
XX
XX      (HISM ) HISAMITSU PHARM CO LTD.
XX      (CHIB-) CRIBA PREFECTURE.
XX
XX      Makagawara A:
XX
XX      WPI: 2001-226686/23.
XX
XX      Human Ip35 homozygosity deletion domain from the 36-position of first
XX      chromosome short arm in human neuroblastoma cell line: HSP1 cable n.d.
XX      In gene diagnosis of tumors as well as in developing anti-cancer drugs

```

XS Example B: Page 104-118: 726pp; Japanese.

F5 The present invention describes a homocytosily deletion domain co-existing in the 3^s-position of the first chromosome short arm (1p36) in human neuroblastoma. Also described are base sequences from the p36 CC which are human neuroblastoma cell lines (NR-1 and MARS-NR-SGH-1), CC tumour suppressor genes based sequence analysis of human applicable as formation, and gene diagnosis of tumours as well as in developing anti-cancer drugs. AAF9787 to AAF97825 represent PCR primers used in CC the exemplification of the present invention, and AAF97830 to AAF97874 CC represent sequences given in the exemplification of the present invention.

SX

SO Sequence 3448B BP: 965A A: 6717 C: 692c G: 11191 T: 0 other:

DY Query Match
Best Local Similarity 100.0%; Pred.No. 8.8;
Matches 22: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

569 catatttttataaaaaaaaaaaaaaa 590
|||||||11111111111111111111
nb 20758 cactatcttaaaaahhaaaaaabba 20779

RESULT 13
AAAC65548
ID AAC65548 standard: DNA: 121152 bp.
AC AC65548:
XX 19-FEB-2001 (first entry)
DE Human kinesin-like protein HKLP coding sequence contlg STD ID NO: 1.
XY Human kinesin-like protein: HKLP: KIF1: cell division, cancer:
KM intracellular transport; neurological disorder; infertility;
KV biallelic marker; spontaneous abortion; neonatal chromosome disorder;
aneploidy; ds.
XX Homo sapiens.
XS XM NM_020005(3375-A).
PH PM W0200053375-A1.
PD PD 25-OCT-2000.
PF PF 20-APR-2000: 2000KW-1.B00555Z.
PR XX 20-APR-1999: 95US-0130217.
PX (GEST.) GENSET.
PI Bouguetel et al., Dufauere-Gare I., Groj P.
PI WP1: 2000-655242/64.
DP AP1 isolated or purified human kinesin-like protein (HKLP) encoding polynucleotide used to detect HKLP polynucleotides in a sample comprises a contiguous span of at least 12 nucleotides -
CX Claim 1: Page 143-175: 199pp; English.

The present invention describes the coding and protein sequences of the human kinesin-like protein HKP. It is thought that mutations could be involved in neurological disorders, infertility, spontaneous abortion de neomental chromosome disorders, aneuploidy and cancers. This is due to its function in the movement of microtubules. The protein shows homology to the murine KIF1A and KIF1B proteins. The sequences disclosed in the invention can be used in the isolation of similar human proteins and in vector production. In addition, the biallelic markers shown can be used in disease diagnosis and population studies.

```

XX  Sequence 121162 BP: 31277 A: 24108 C: 25842 G: 37919 T: 21 other:
SQ
XX  Query Match      3 7A, Score 22, DB 21, Length 121162
XX  Best Local Similarity 100.0%; Avg. Gap 2.75;
XX  Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0:
XX  569 catcttcaaaaaaaaaaaaaa 590
XX  |||||||
XX  Db 47604 catattcaaaaaaaaaaaaaa 47625
XX
XX  RESULT 14
XX  ID AF60545
XX  ID AF60545 standard; DNA: 67 BP.
XX  AC AAF60545:
XX  DT 27-APR-2001 (first entry)
XX  XX
XX  DE Probe #2 used in a method for quantifying analyte polynucleotides.
XX  XX
XX  XX Probe; HIV: 88.
XX  XX
XX  XX Human Immunodeficiency virus type 1.
XX  XX
XX  XX MO200107661-A2.
XX  XX
XX  PD 01-FEB-2001.
XX  PF 21-JUL-2000: 2000MO-US20034.
XX  PR 23-JUL-1999: 990US-0145432.
XX  PR 23-JUL-1999: 990US-0145432.
XX  PI (GENP-1) GEN-PROBE INC.
XX  PI
XX  PI Nishimura K:
XX  XX
XX  XX HPI: 2001-182804/18.
XX  XX
XX  XX Detecting and quantitating analyte polynucleotide in a sample, by
XX  XX co-amplifying analyte polynucleotide with predetermined amount of
XX  XX pseudo target, producing amplification products and quantifying analyte
XX  XX amplicons
XX  XX
XX  PS Example 3; Page 39; 78pp; English.
XX  PS
XX  CC The present invention relates to a method for quantifying analyte
XX  CC polynucleotides (AP). The method comprises combining a test sample of AP
XX  CC with predetermined amount of a pseudo target (PT) and co-amplifying, to
XX  CC produce a collection of amplification products, including an analyte
XX  CC amplicon if the sample contained AP and PT amplicon. The analyte amplicon
XX  CC is quantified without reference to the amount of PT amplicon in the
XX  CC sample. In the present invention, the present sequence is a probe used in the method
XX  CC of the present invention.
XX  CC
XX  SQ Sequence 67 BP: 36 A: 9 C: 5 G: 17 T: 0 other:
XX
XX  Query Match      3 6A, Score 21, DB 22, Length 67:
XX  Best Local Similarity 100.0%; Pred. No. 48:
XX  Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0:
XX  570 attattcaaaaaaaaaaaaaa 590
XX  |||||||
XX  Db 32 attattcaaaaaaaaaaaaaa 52
XX
XX  RESULT 15
XX  ID AF074410
XX  ID AF074410 standard; DNA: 679 BP.
XX  XX

```

AC	AA071410:
DJ	12-JUN-1995 (first entry)
XX	Lipid transfer protein coding sequence.
XX	
KM	Lipid transfer protein; membrane liposome; drva carrier; ss.
OS	Spinacia oleracea L.
PN	JF06247999-A.
XD	06-SEP-1994.
XI	
PF	24-FEB-1993: 93JP-0035821.
PR	24-FEB-1993: 93JP-0035821.
XX	
PA	(NISE) JAPAN TOBACCO INC.
DR	WPI: 1994-322194/40.
XX	P-ESDB: AAK53755.
PT	New lipid transfer protein and its gene - useful for changing the composition of lipid membranes
PS	Claia 2: Page 2: 10PP: Japanese.
XX	The lipid transfer protein encoded by this sequence may be used to alter the composition of lipid membranes. The lipid transfer protein may also be used to create new liposomes for use as drug carriers and new plants which have cells with altered membranes.
SQ	Sequence 679 BP: 157 A: 134 C: 155 G: 223 T: 0 other:
XX	
Query Match	3.6% Score 21: DB 15: Length 679:
Best Local Similarity	100.0%: Pred. NO. 35:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:	
Oy	570 atattctatataaaaaaa 590 t t t t t Db 656 attcttcataaaaabaaaaa 675
RESULT 15	
ID	AAV59132
ID	AAV59132 standard; DNA: 959 BP.
AC	AAV59132:
XX	
DT	07-JAN-1999 (first entry)
XX	
DE	Nucleotide sequence of murine HELA2.
XX	
KM	Setine protease regulation: cell activity: vlability: HELA2; ATC2;
KM	BCHM3; testisin: fertility: suppressor: testicular germ cell cancer;
KM	seminoma; testis-specific expression: antitumour; sperm development;
RM	fertility: mouse; ss.
XX	
OS	Mus sp.
XX	
FM	
FT	Key Location/Qualifiers
FT	CDS 2..859
FT	/feature = a
FT	/product= HELA2
XX	
PN	W09836054-A1.
XX	
PD	20-AUG-1998.
XX	
TX	13-FEB-1998: 56MO-AU00085.
XX	

```

FR 18-NOV-1997: 97AU-0000422.
FR 13-FEB-1997: 97AU-0005101.
XX
XX (AMBA-1) AMRAD OPERATIONS PTY LTD.
XX
XX Antalis TM, Hooper JD:
XX
XX NPL: 1998-480268/41.
XX
XX P-PSDB: AAW77301.
XX
XX
XX New serine protease(s) and kinase involved in regulating cell
XX activity and viability - particularly the testis-specific protease
XX HELA2 used for modulation of fertility and as tumour suppressor
XX
XX
XX Example 14: Fig 18A: 167p: English.
XX
XX The present sequence represents the nucleotide sequence of murine HELA2.
XX Human HELA2 was isolated from HeLa cells. HELA2 is associated with
XX serine proteases. The protein is involved in or associated with
XX regulation of cell activity and/or viability. Administration of
XX recombinant HELA2 (also called testisin) is used to increase fertility.
XX Downregulation of HELA2 reduces fertility. HELA2 is also a suppressor of
XX testicular germ cell cancers (seminoma) and is also expressed in some
XX non-testicular cancers (of colon, pancreas, prostate and ovary), so is
XX a marker/potential therapeutic target for cancer. The promoter from the
XX HELA2 gene is useful for testis-specific expression of other genes.
XX The activity of HELA2 is used for modulation of fertility. Drugs that block
XX activity of HELA2 should be used to increase fertility in men. HELA2
XX testis) while in testis recombinant HELA2 should be used for orchidectomy.
XX Identification of mutant forms of HELA2 can be used to diagnose
XX infertility.
XX
XX Sequence 959 BP: 225 A: 252 C: 241 G: 231 T: 0 other:
XX
XX
XX Query Match 3.6%, Score 21: DB 19: Length 959:
XX Best Local Similarity 100.0%: Pred. No. 34:
XX Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX 570 atatttaaaaaaaaaaaaaa 590
XX |||||||
XX Tb 934 atatttaaaaaaaaaaaaaa 954
XX
XX
XX RESULT 17
XX AAF22420/c
XX ID AAF22420 standard: cDNA: 1049 BP.
XX
XX AAF22420:
XX
XX 26-MAR-2001 (first entry)
XX
XX Human secreted protein gene 48 SFO ID NO:58.
XX
XX Human: secreted protein: diagnosis: immunosuppressive: antiarthritic:
XX antirheumatic: antiproliferative: cytoskeletal: candida: vasotropic:
XX cerebroprotective: neurotropic: neuroprotective: antibacterial: vitronectin:
XX rheumatoid arthritis: gene therapy: autoimmune disease: neoplasia:
XX rheumatoid arthritis: gene therapy: autoimmune disease: neoplasia:
XX cardiovascular disorder: cerebrovascular disorder: candida: candida:
XX angiogenesis: nervous system disorder: Alzheimer's disease: infection:
XX ocular disorder: corneal infection: wound healing: skin aging:
XX
XX Food additive: preservative: ss.
XX
XX Homo sapiens.
XX
XX MO200061629-A1.
XX
XX 19-OCT-2000.
XX
XX 06-APR-2000: 2000MO-US09071.
XX

```

```

FR 05-APR-1999: 99US-0128694.
FR 20-JAN-2000: 2000US-0175931.
XX
XX (HUMA-1) HUMAN GENOME SCI INC.
XX
XX FA (PSEF) P/SEN C A.
XX
XX P/SEN SR, Komatsoulis G:
XX
XX NPL: 2000-647420/52.
XX
XX P-PSDB: AAB53181.
XX
XX
XX Isolated nucleic acid molecule encoding a human secreted protein is
XX used in preventing, treating or ameliorating a medical condition
XX
XX
XX Claim 1: Page 458: 533p: English.
XX
XX AAF22373 to AAF22421 encode the human secreted proteins given in AAB53134
XX to AAB53182. AAB53133 to AAB53231 represent more human secreted proteins
XX which are homologous to them. Human secreted proteins have
XX activity in the human body. The proteins are used in the treatment of
XX Examples of activities include: immunosuppressive: antiarthritic:
XX antirheumatic: antiproliferative: cytoskeletal: candida: vasotropic:
XX cerebroprotective: neurotropic: neuroprotective: antibacterial: vitronectin:
XX fungicide: and ophthalmological. The polynucleotides and proteins can be
XX used to prevent, treat or ameliorate a medical condition in e.g. humans,
XX mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are
XX also used in diagnosing a pathological condition or susceptibility to a
XX pathological condition. Disorders which are diagnosed or treated include
XX autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative
XX diseases e.g. cancer, infectious diseases e.g. Alzheimer's
XX disorders e.g. cardiac arrest, cerebrovascular disorders, cerebral
XX ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's
XX disease, infections caused by bacteria, viruses and fungi and ocular
XX disorders e.g. corneal infection. The polypeptides can also be used to
XX aid wound healing and epithelial cell proliferation. To prevent skin
XX aging due to sunburn, to maintain organs before transplantation, for
XX supporting cell culture of primary tissues, to regenerate tissues and in
XX chemoradiation. The polypeptides can also be used as a food additive or
XX preservative to increase or decrease storage capabilities. AAF22364 to
XX AAF22372 and AAB53133 represent sequences used in the exemplification of
XX the present invention.
XX
XX Sequence 1049 BP: 305 A: 242 C: 212 G: 288 T: 2 other:
XX
XX
XX Query Match 3.6%, Score 21: DB 21: Length 1049:
XX Best Local Similarity 100.0%: Pred. No. 33:
XX Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX 570 atatttaaaaaaaaaaaaaa 590
XX |||||||
XX Tb 44 A1A111A0A0000000000A 21
XX
XX
XX RESULT 18
XX AAX20486
XX ID AAX20486 standard: DNA: 1070 BP.
XX
XX AAX20486:
XX
XX 04-MAY-1999 (first entry)
XX
XX Human secreted protein gene 75.
XX
XX Human: secreted protein: fusion protein: gene therapy: protein therapy:
XX diagnosis: tissue: cancer: tumour: neurodegenerative disorder: leukaemia:
XX developmental abnormality: foetal deficiency: blood: allergy: renal: ds:
XX immune system: asthma: lymphocytic disease: brain: hepatic: lymphoma:
XX inflammation: ischaemic shock: Alzheimer's disease: restenosis: AIDS:
XX cognitive disorder: schizophrenia: prostate: obesity: osteoclast: thymus:
XX osteoporosis: arthritis: testis: lung: thyroiditis: thyroid: digestion:
XX endocrine: metabolism: regulation: malabsorption: gastritis: neoplasia.
XX

```


[illegible]

```

Cy      570 attattataaaacaaaaaaa 590
nb      1222 attcttcaaaaaaaaaaaaaa 1242

RESULT 21
AAH31582
ID      AAH31582 standard; cDNA: 1279 bp.
XX
XX      AAH31582:
XX      03-SEP-2001 ((first entry))
DE
DE      Human colon cancer antigen encoding cDNA SEQ ID NO:1664.
XX
XX      Hunt's colon cancer: colon cancer antigen; diagnosis: detection:
XX      colo:rectal carcinoma: chromosome 14: ss.
XX
XX      Homo sapiens.
XX
XX      M0200122920-AZ.
XX
XX      05-APR-2001.
FD
FD      28-SEP-2000: 200DWD-US$6421.
FX
FX      29-SEP-1999: 990S-01$7137.
FX      03-MAY-1999: 990S-01$3280.
XX
XX      (HUNT'S) HUMAN GENOME SCI1 INC.
FA
FA      Rutenberg SM, Barash SC, Birse CE, Rosen CA:
P      WPI: 2001-235357/24.
CR
CR      P-PRIIM: MAG5177.
XX
XX
FI      Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
F      useful for preventing, diagnosing and/or treating colorectal cancers -
FI
FI      Claim 1: Page 3271: 9503PT. English.
FX
FX
XX      AAH3733 to AAH37195 and AAG3751A to AAG3778B represent human colon
XX      cancer-associated genes and their encoded molecules (M) and proteins (P). There
CC      are two groups of genes/proteins. The first group consists of genes/proteins
CC      the locations are collectively associated with colorectal cancer. The second
CC      cancer antigens have cytostatic activity and can be used as gene
CC      therapy and vaccine production. N and P may be used in the prevention,
CC      diagnosis and treatment of diseases associated with inappropriate P
CC      expression. For example, N and P may be used to treat disorders
CC      associated with decreased expression by rectifying mutations or deletions
CC      in a patient's genome that affect the activity of P by expressing
CC      alternative proteins or to supplement the patients own production of P.
CC      Alternative proteins or to produce the colon cancer-associated PS,
CC      which may be used to inhibit the growth of tumor cells. This method
CC      to express the proteins. N and P can be used in the prevention, diagnosis
CC      and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC      and AAH37789 represent sequences used in the exemplification of the
CC      present invention.
CC
CC      N.B. Pages 566 to 562 and page 7053 of the sequence listing were
CC      missing at time of publication, meaning no sequences are present for
XX      SEQ ID NO:1027 to 1052, 7921 and 7922.
XX
XX      Sequence 1279 BP: 421 A: 225 C: 294 G: 337 T: 1 other:
Query P-value          3.4e- Score 21: DB 22: Length 1279:
Best Local Similarity 100.00: Pred No. 32:
Patches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

```

Oy 570 atattcaaaaaaaaaa 590
 |||||||
 Db 1222 atattcaaaaaaaaaa 1242

RESULT 22

AAV53733
 ID AAV53733 standard: cDNA: 1302 BP.

AC AAV537380:

XX 27-SEP-1996 (first entry)

XX DNA encoding endothelial cell protein receptor.

XX EPCR: endothelial cell protein C receptor; activated protein C;

XX blood coagulation; inflammatory response; inhibits; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 25..741

XX /tag a

XX s1g_peptide 25..69

XX /tag b

XX mal_peptide 70..718

XX /tag c

XX polyA_signal 1267..1272

XX /tag d

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

RESULT 23
 AAV53733
 ID AAV53733 standard: cDNA: 1302 BP.

XX AAV53733:

XX 20-NOV-1995 (first entry)

XX Nucleotide sequence of the endothelial cell protein receptor.

XX Human: endothelial cell protein receptor; inflammation; regulation;

XX endothelial protein C receptor; EPCR; coagulation state; diabetes;

XX major vascular condition; autoimmune disease; pre-eclampsia;

XX cardiopulmonary bypass; unstable angina; restenosis; angioplasty;

XX kidney disease; liver disease; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 25..741

XX /tag a

XX /product "EPCR protein"

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

Sequence 1302 BP: 340 A; 325 G; 341 G; 296 T; 0 other:

Query Match 3.54; Score 21; DB 19; Length 1302;

Best Local Similarity 100.0%; Pred. No. 32;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 570 atattcaaaaaaaaaa 590
 |||||||
 Db 1279 atattcaaaaaaaaaa 1299

disclosure: volume 21-22; 21pp; English.

XX This is the nucleotide sequence of the human endothelial cell protein

XX receptor, used in the method of the invention where endothelial protein

XX C receptors (EPCR) is used in diagnosis of inflammatory and coagulation

XX states and disorders associated with damage to endothelium and large

XX blood vessel disease. EPCR is involved in the regulation of a host

XX response to inflammation. The protein is one of the last components

XX to be activated in the coagulation system, and is thought to control

XX pathways and inflammation. Activation of the protein C pathway

XX is thought to be involved in large blood vessels, not capillaries,

XX and so is associated with for major vascular conditions, and the

XX increased frequency of the receptor in the conditions stated makes it

XX ideal as a diagnostic component. The assay is used for the diagnosis

XX of complications such as autoimmune diseases, pre-eclampsia, diabetes,

XX vascular disease (especially cardiopulmonary bypass, unstable angina,

XX restenosis and angioplasty), kidney disease and liver disease.

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

CC Protein can have activities based on the tissues and cells the genes are
 CC expressed in. Examples of activities include: cytostatic;
 CC immunosuppressive; antiinflammatory; neurotrophic; neuroprotective; anti
 CC entitlergic; the polynucleotides and their corresponding secreted
 CC conditions of gene therapy. Also polynucleotides in a
 CC sample or by determining the presence of mutant polynucleotides in a
 CC polynucleotides. Human secreted protein s and their polynucleotides can
 CC be used for developing products for the diagnosis or treatment of cancer.
 CC tumours, neurodegenerative disorders, developmental abnormalities and
 CC foetal deficiencies, blood disorders, diseases of the immune system,
 CC autoimmune diseases, hepatic and renal disease, inflammation,
 CC osteoporosis, infectious diseases, AIDS, spinal cord injuries,
 CC transplant rejection, diabetes, sepsis, acne, psoriasis,
 CC cardiovascular disorders, reproductive disorders, osteoarthritis,
 CC disorders, respiratory disorders and metabolic disorders.
 CC proteins or polynucleotides can also be used as food additives or
 CC preservatives. The proteins are also useful for identifying their
 CC binding partners. AA98008 to AA28016 and AA87063 are sequences used in
 CC the exemplification of the present invention.

CC Sequence 1373 BP: 325 A: 329 C: 361 G: 358 T: 0 other:

Query Match 3.54: Score 21: DP 21: Length 1373:

Best Local Similarity 100.0%: Pctd No. 32: Mismatches 0: Indels 0: Gaps 0:

Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

570 attctcaaaaaaaaaaaaaa 590

Ch 1349 attctcaaaaaaaaaaaaaa 1369

RESULT 25

AA011699

AA011699 standard: cDNA: 1373 BP.

AA011699: 21-SEP-2001 (first entry)

Human secreted protein-encoding gene 60 cDNA clone H19512, SEQ ID NO:170.

Human: secreted protein; proliferative disorder; cancer; wound; arthritis;

foetal abnormality; developmental abnormality; haematopoietic disorders;

immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;

Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;

psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;

inflammation; neurological disorder; Alzheimer's disease; foot ailment;

pregnancy-related disorder; endocrine; gastrointestinal disorder; allergy;

cell culture; chemotaxis; viraemia; binding partner identification;

gene therapy; ss.

Homo sapiens.

Key

CD5

Location/Qualifiers

213..404

Product: Human secreted protein precursor

sig_peptide

213..239

mat_peptide

300..401

/tag: C

/product: Mature human secreted protein

W020015104-A1.

19-JUL-2001.

12-JAN-2001: 2001WO-US00311.

XX 13-JAN-2000: 2000US-0482273.

FA (HUMA-1) HUMAN GENOME SCI INC

PI Puben SM, Katsoulis GA, Luan FB, Rosen CA, Moore PA, Shi Y;

PI Laffey DM, Olsen HS, Freter LA, Florence KA, Young FE, Soppet DR;

PI Endress GA, Mischenki M, Finor E;

XX W01: 2001-125865/15.

PI F-ESPR: AA011699.

FI Isolated nucleic acid molecule encoding a human secreted protein is

used in preventing, treating or ameliorating a medical condition.

XX Claim 1: Page 713-714: English.

XX AA011699-AA011721 represent cDNA corresponding to 71 human secreted

CC protein genes, and AA010911-AA011699 represent the proteins they encode.

CC The AA011699-AA011721 represent human secreted protein fragments.

CC The AA011699-AA011721 genes are useful for preventing, treating

CC or ameliorating conditions can be diagnosed, by protein or gene therapy.

CC Pathological conditions can be diagnosed, by determining the amount of the

CC new protein in a sample or by determining the presence of the 71 genes. In

CC based on the tissues in which they are most highly expressed, and include

CC developing products for the diagnosis or treatment of proliferative

CC disorders, cancer, tumours, foetal and developmental abnormalities,

CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune

CC rheumatoid arthritis, inflammation, allergies,

CC rheumatoid arthritis, Alzheimer's disease, Parkinson's disease,

CC congenital disorders, schizophrenia, inflammatory disorders,

CC psoriasis, sepsis, diabetes, atherosclerosis, cardiovascular disorders,

CC angiogenic disorders, kidney disorders, gastrointestinal disorders,

CC pregnancy-related disorders, endocrine disorders, and infections. The

CC proteins can also be used to aid wound healing and epithelial cell

CC proliferation, to prevent skin aging due to sunburn, to maintain organs

CC before transplantation, for supporting cell culture of primary tissues,

CC to regenerate tissues, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

CC partners, to identify their cognate ligands or binding

PN	XX	MO200073459-A1.
PN	XX	07-DEC-2000.
PN	XX	01-JUN-2000: 2000MO-0515002.
PN	XX	01-JUN-1993: 9905-0123552.
PN	XX	(21MO) ZYMOGENETICS INC.
PN	XX	Piddington GS, West JR, Holly FO, Burkhead SR:
PN	XX	WPI: 2001-061540/07.
PN	XX	New zsi981 polypeptides and polynucleotides useful for e.g. promoting
PN	XX	wound healing, or in diagnosing or treating disorders associated with
PN	XX	cell loss or abnormal cell proliferation, such as cancer
PN	XX	with dentritic lineage cells.
PN	XX	Sequence 1547 BP: 428 A: 375 C: 357 G: 387 T: 0 other:
PN	XX	Query Match
PN	XX	Best Local Similarity 100.00; Pred. No. 31;
PN	XX	Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
PN	XX	570 attattcaaaaaaaaaaaaaa 590
PN	XX	
PN	XX	1507 attattcaaaaaaaaaaaaaa 1537
PN	XX	RESULT 28
PN	XX	AA008465 standard: cDNA: 1549 BP.
PN	XX	AA008465:
PN	XX	09-AUG-2001 (first entry)
PN	XX	Human secreted protein-encoding gene 17 cDNA clone HHE215, SEQ ID NO:72.
PN	XX	Human: secreted protein: proliferative disorder; cancer; lung; asthma;
PN	XX	foetal abnormality; developmental abnormality; haemotopoietic disorder;
PN	XX	immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
PN	XX	parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
PN	XX	inflammation; neurological disorder; Alzheimer's disease; food disorder;
PN	XX	autoimmune disorder; kidney disorder; gastrointestinal disorder; allergy;
PN	XX	pregnancy-related disorder; endocrine disorder; infection; wound healing;
PN	XX	cell culture; chromotaxis; vulnerability; binding partner identification;
PN	XX	gene therapy; chromosome 20: ss.
PN	XX	Romo sapiens.
PN	XX	Key
PN	XX	CS0
PN	XX	705:aggr
PN	XX	/location/Qualifiers
PN	XX	/tag a
PN	XX	/product "Human secreted protein precursor"
PN	XX	/note "Does not include start codon"
PN	XX	/partial
PN	XX	MO200134643-A1.
PN	XX	17-MAY-2001.

PF	08-NCV-2000:	2000NCV-US05629.	
XX			
PR	12-NCV-1999:	9905-0154825.	
PR	03-AUG-2000:	2000AUG-0222904.	
XX			
PR	(HUMA-1) HUMAN	GENOME SCI INC.	
XX			
PI	Ruben SM, Komatsujiis GA, Soppet IR, Shi Y:		
DR	WPI: 2001-274441/39.		
XX	P-PSDB: AAE0150.		
XX			
PI	Nucleic acids encoding 24 human secreted polypeptides, useful for		
PI	preventing, diagnosing, screening and/or treating e.g. cancer's disease,		
PI	diabetes mellitus and multiple sclerosis.		
XX			
XX	Claim 1: Page 459-460: 532pp: English.		
XX			
CC	AA008401:AA008472 represent cDNAs corresponding to 24 human secreted		
CC	Protein genes, and AAE004100-AAE004170 represent the proteins they encode.		
CC	AA0084172-AA0084197 represent human secreted protein fragments or variants.		
CC	The secreted proteins and their genes are useful for preventing, treating		
CC	pathological medical conditions, e.g., by protein or gene therapy, the		
CC	presence of a mutation in a gene, or by determining the presence of mutations in		
CC	the new genes. Specific uses are described for each of the 24 genes,		
CC	based on the tissues in which they are most highly expressed, and included		
CC	developing products for the diagnosis or treatment of proliferative		
CC	disorders, cancer, tumours, foetal and developmental abnormalities,		
CC	haematopoietic disorders, rheumatoid arthritis, inflammation, allergies,		
CC	diseases (e.g., rheumatoid arthritis), the immune system, AIDS, autoimmune		
CC	neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),		
CC	cardiovascular disorders, asthma, skin disorders (e.g., eczema, psoriasis),		
CC	endocrine disorders, kidney disorders, gastrointestinal disorders,		
CC	pregnancy-related disorders, endocrine disorders, and infections. The		
CC	proteins can also be used to aid wound healing and epithelial cell		
CC	proliferation, to prevent skin aging due to sunburn, to maintain organs		
CC	before transplantation, for supporting cell culture of primary tissues,		
CC	to regenerate tissues, to identify their cognate ligands or binding		
CC	partners, and in chemokines, and can be used as a food additive or		
CC	preservative to modify storage properties. Antibodies specific for a		
CC	part of the invention can be used in all existing symptoms associated		
CC	with the disease, for example, in the diagnosis of the disease, e.g.,		
CC	radioimmunoassay or enzyme-linked immunosorbent assay (ELISA).		
CC	The present sequence represents a human secreted protein-encoding cDNA of		
CC	the invention.		
XX			
XX			
SQ	Sequence 1549 BP: 411 A: 302 C: 305 G: 529 T: 1 other:		
XX			
Query Match	3.5% Score 21: DB 22: Length 1549:		
Seed Local	Similarity: 100.0%: Pred. No. 31:		
Matches	21: Conserved: 0: Mismatches: 0: Indels: 0: Gaps: 0		
Oy	570 attattcaaaaaaaaaaaaaa 590		
Db	1513 atttttttttttttttttttttt		
Db	1513 attttcaaaaaaaaaaaaaa 1513		
XX			
RESULT 29			
AA0085984	standard: cDNA to mRNA: 1624 BP:		
XX			
AD	AA0085984 standard: cDNA to mRNA: 1624 BP:		
XX			
AD	AA0085984:		
XX			
DT	12-OCT-1995 (first entry)		
XX			
DE	orf72 saliva PFEK-CSI gene.		
XX			
XX	ATP-dependent fructose-6-phosphate 1-phosphotransferase enzyme; pAm:		

FM	Polestar:	Solanum tuberosum:	rice:	Oryza sativa:	maize:	76a rays:	ratish:
FM	Raphanus	sativus:	Flaevia	brownii:	pinner:	expression	vector:
KM	Agrobacterium	tumefaciens:	sugar:	storage:	temperature:	ds.	
XX	Oryza	sativa:					
OS							
XX	Key	Location/Qualifiers					
FT	CDS	/tag	a				
FT	FT	/product=	fructose-6-phosphate 1-phosphotransferase				
FT	CDS	/tag	b				
FT	FT	/transl_except=	seq: MAT, a.a.:116				
PN	M09505457-A.						
XX	23-FEB-1995.						
PF	16-AUG-1994:	94MO-JP01352.					
PR	19-AUG-1993:	93JP-0226454.					
PA	(MTSD) JAPAN TOBACCO INC.						
PI	Hiyoshi T., Kasaka K., Mine I., Page MJA, Tyson HP:						
DH	WPI: 1995-088757/13.						
DR	P-PDB: AMR71581.						
PT	DNA coding for fructose-6-phosphate 1-phosphotransferase - of plant origin, for prodn. of transformant plant cells with altered sugar content						
PS	Claim 8: Page 46-49; 79pp: Japanese.						
CC	The sequences (AA085982-6) represent the genes encoding a novel fructose-6-phosphate 1-phosphotransferase from a species of the genus Oryza (BP 2) isolated from a group of plants This is no sequence of the Oryza sativa (rice) gene, pPFR-051, as given in the specification.						
CC	Plants transformed with these genes can express the enzyme. The transformed plants can produce varieties that have altered sugar content on storage at low temperatures.						
XX							
XO	Sequence 1624 BP: 480 A: 302 C: 406 G: 436 T: 0 other:						
	Query Match	3 6% Score 21: DA 16: Length 1624:					
	Best Local Similarity 100.0%: Pval. No. 31:						
	Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:						
Gy	570 atattcaaaaaaaaaaaaaaa 590 						
Db	1600 etattcataaaaaaaaaaaa 1620						
	RESULT 30						
ID	AA158747						
ID	AA158747 standard: cDNA: 1763 BP.						
AC	AA158747:						
XX	22-OCT-2001 (first entry)						
DE	Ruman polynucleotide SFO ID NO 950.						
XX	Ruman: nonotropic; immunosuppressant; cytostatic; gene therapy: CNS: etc:						
FM	Peripheral nervous system; neuropathy: central nervous system: CNS:						
FM	Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic:						
FM	amyotrophic lateral sclerosis; Shy-Draeger Syndrome; chemoclastic:						
FM	chemokinesis; thrombotic; drug screening; arthritis; inflammation;						
FM	leukemia; ss.						
XX	Bromo sapiens.						

```

XX PN WO200153132-A1.
PD PD
XX 26-JUL-2001.
XX
XX 26-DEC-2000; 2000MO-US34253.
PF
XX
XX 21-JAN-2000; 2000US-0488725.
XX 25-APR-2000; 2000US-0582317.
XX 09-JUL-2000; 2000US-0598042.
XX 19-JUL-2000; 2000US-0650312.
XX 03-AUG-2000; 2000US-0653150.
XX 14-SEP-2000; 2000US-0652191.
XX 19-OCT-2000; 2000US-0693035.
XX 29-NOV-2000; 2000US-0737344.
XX
XX (HRSF-) HRSFO INC.
XX
XX Tang YJ, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Pen F, Wang D,
PI Wang Z, Weinman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QH, Zhou P, Goodrich R, Dermanac RT;
PI
XX WPI: 2001-442253/47.
DR P-SDS: AAM3591.
XX
XX Novel nucleic acids and polypeptides, useful for treating disorders
XX P such as central nervous system injuries.
XX
XX Claim 1: SEQ ID NO 950; 10078pp; English.
XX
XX The invention relates to human nucleic acids (AA157798-AA161369) and
XX the encoded polypeptides (AAM38642-AAM42213) with neurotropic,
XX immunosuppressant and cytoskeletal activity. The polynucleotides
XX of the invention may be used to treat diseases of the peripheral
XX nervous system, such as peripheral neuropathy, peripheral neuritis and
XX system sclerosis and central nervous system diseases, such as
XX Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
XX lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
XX utilisation of the activities such as: immune system suppression,
XX Actin/inhibin activity, chemotactic/chemokinetic activity, hemostatic
XX and thrombolytic activity, cancer diagnosis and therapy, drug screening,
XX assays for receptor activity, arthritis and inflammation, leukemias and
XX C.N.S. disorders.
XX CC
XX Note: the sequence data for this patent did not form part of the printed
XX specification.
XX
XX Sequence 1763 BP; 527 A; 327 C; 399 G; 510 T; 0 other;
XX
XX
XX Query Match 3.44; Score 21; DB 22; Length 1763;
XX Best Local Similarity 100.0%; Fred. No. 31;
XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
XX
XX 570 aatttcaaaaaaaaaaaaaa 590
XX ||||||||||||||||||||
XX Db 1741 aatttcaaaaaaaaaaaaaa 1761
XX
XX
XX RESULT 31
XX AAH48294
XX ID AAH48294 standard: DNA; 1994 BP.
XX
XX AAH48294:
XX
XX 25-SEP-2001 (first entry)
XX
XX Honeybee alpha-glucosidase coding sequence.
XX DE
XX Honeybee: alpha-glucosidase; ds.
XX
XX Aphis mellifera.
XX CS

```

```

FH Key Location/Qualifiers
FT CDS 13..1779
FT /tag= a "alpha-glucosidase"
FT /product= "alpha-glucosidase"
XX JP2001136986-A.
XX 22-MAY-2001.
XX 01-SEP-2000: 2000JP-0265070.
XX 01-SEP-1999: 99JP-0246862.
XX (NISO) NIPPON SHOKUHIN KAKO KK.
XX WPI: 2001-460212/50.
XX P-PSDB: AAG64875.
XX Apls mellifera alpha-glucosidase gene
XX Claim 2: Page 6-9; 11pp: Japanese.
XX The present invention provides the protein and coding sequences of the
XX honeybee alpha-glucosidase gene can be used for the preparation of
XX Apls mellifera alpha-glucosidase I, the present sequence is the coding
XX sequence of the invention.
XX Sequence 1994 BP: 753 A: 310 C: 357 G: 574 T: 0 other:
SO

Query Match 3.6% Score 21: DB 22: Length 1994:
Best Local Similarity 100.0%: Pred. No. 30:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttataaaataaaataaa 590
DB 1915 atatttataaaataaaataaa 1915

RESULT 32
AA233647
XX AA233647 standard: cDNA: 2281 BP.
XX AA233647:
XX 08-DEC-1999 (first entry)
XX Human breast tumour-associated EST 37.
XX Human breast tumour-associated EST 37.
XX Expressed sequence tag: EST: human: breast: cancer: gene therapy:
XX treatment: tumour: cytostatic: medicament: ss.
XX Homo sapiens.
XX DE19813839-A1.
XX 23-SEP-1999.
XX 20-MAR-1998: 98DE-1013839.
XX 20-MAR-1998: 98DE-1013839.
XX (META-) METAGEN GES GENOMFORSCHUNG MBH.
XX Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E, Rosenthal A:
XX WPI: 1999-528981/45.
XX P-PSDB: AAY48573.
XX Human nucleic acid sequences and protein products from tumor breast
XX tissue, useful for breast cancer therapy
XX Claim 1a: 116-117; 18pp: German.
PS

```

```

XX This invention describes novel human nucleic acid sequences from tumor
XX breast tissue which have cytostatic activity. The nucleic acid sequences
XX can be used to produce and isolate full-length gene sequences. They can
XX be used to express proteins, which can be used as tools to find an
XX active agent against breast cancer. The sequences can be used in sense or
XX antisense form. They are especially useful for medicaments for gene
XX therapy to treat breast cancer. AA235611-248617 represents expressed
XX sequence tags described in the method of the invention.
XX Sequence 2281 BP: 601 A: 498 C: 494 G: 688 T: 0 other:
SO

Query Match 3.6% Score 21: DB 20: Length 2281:
Best Local Similarity 100.0%: Pred. No. 30:
Matches 21: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
OY 570 atatttataaaataaaataaa 590
DB 2248 atatttataaaataaaataaa 2268

RESULT 33
AA090652
XX AA090652 standard: cDNA: 3133 BP.
XX AA090652:
XX 11-MAY-1995 (first entry)
XX Eph-related tyrosine kinase CEK6 cDNA.
XX CEK6: Eph: protein tyrosine-kinase: PTK: cancer: diagnosis:
XX prognosis: ss.
XX Gallus sp.
XX OS
XX Key Location/Qualifiers
XX CDS 3133..3133
XX FT 421..2859
XX FT //tag= a
XX CDS //tag= b
XX W09515375-A.
XX 08-JUN-1995.
XX 07-SEP-1994: 94MD-0510140.
XX 03-DEC-1993: 93US-0162809.
XX (LJOL-) LA JOLLA CANCER RES FOUND.
XX Pasquale EB, Smolnik FG:
XX WPI: 1995-215256/20.
XX P-PSDB: AAR57704.
XX Eph-related protein tyrosine kinases(s) - for monitoring and diagnosing
XX cancer.
XX Disclosure: Page 37-41: 129pp: English.
XX Novel Eph-related PTK CEK6 cDNA clones (AA090652) were isolated from
XX chick embryo and embryonic brain cDNA libraries in phage lambda g11.
XX The encoded CEK6 protein (AAR57704) is closely related to rat Elk,
XX CEK5 (AA053532) and CeK10 (AAR57708). CEK6 transcripts were found in
XX 10-day embryo and in adult brain, lung, heart and skeletal muscle.
XX Sequence 3133 BP: 718 A: 918 C: 922 G: 575 T: 0 other:
SO

Query Match 3.6% Score 21: DB 16: Length 3133:

```

Best Local Similarity 100.0%; Pred. No. 29;
Matches 21: Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 570 atatttcaaaaaaaaaaaaaa 590
DB 3108 atatttcaaaaaaaaaaaaaa 3128

RESULT 34

AAH19355

ID AAH19355 standard: cDNA: 3831 BP.

AAH19355;

AC 25-JUL-2001 (first entry)

XX Porcine CD29 protein coding sequence.

XX Porcine CD29: immunosuppressive; immunomodulatory;
KW epitope Gal-alpha-(1.3)-Gal: xenotransplantation; xenograft; ss.

XX SUS scrofa.

XX Key Location/Qualifiers

FT CDS 241..7537
FT /cds_start=241,cds_end=7537
FT /product="Porcine CD49"
FT /transl_except="(pos:1027..1035,aa:Ser-Leu-Ile)"

XX MO200125279-A1.

XX 12-APR-2001.

XX 04-OCT-2000: 2000MO-ES00374.

XX 05-OCT-1999: 99BS-0002193.

XX (BIOV-) BIOVET-UCO SL.

XX Garrido Pavao JJ, Llanes Ruiz D, Babancho Medina M;
PI Jimenez Marin AM;

DR MPI: 2001-273559/28.

DR P-PSDB: AAB84751.

XX Porcine CD29 protein and related DNA, useful for removing xenoreactive
PI antibodies to prevent graft rejection and to prepare transgenic animals
PI useful as graft donors

XX Claim 4: Page 38-39; 46pp; Spanish.

XX The present sequence is the coding sequence for porcine CD29 protein.

CC CD29 contains epitopes Gal-alpha-(1.3)-Gal, which are recognised by
CC xenoreactive human antibodies, leading to hyperacute rejection of
CC xenografts. The present invention relates to CD29 proteins, which have an
CC identical, reduced or zero expression of epitope Gal-alpha-(1.3)-Gal,
CC which do not induce or prevent hyperacute rejection associated
CC with xenotransplantation.

XX Sequence 3831 BP: 1114 A: 703 C: 920 G: 1094 T: 0 other:

Query Match 3.5%; Score 21; DB 22; Length 3831;

Best Local Similarity 100.0%; Pred. No. 28;
Matches 21: Conservative 0; Mismatches 0; Indels 0; Gaps 0;OY 570 atatttcaaaaaaaaaaaaaa 590
DB 3808 atatttcaaaaaaaaaaaaaa 3828RESULT 35
AAH19661/C

ID AAH19661 standard: cDNA: 5306 BP.
XX AAH19661;
XX 02-JUL-1999 (first entry)
XX Renal cancer associated gene.
XX Cancer associated antigen; diagnosis; research; treatment; human;
XX breast cancer; colon cancer; gastric cancer; renal cancer; lung cancer;
XX prostate cancer; ss.

XX Homo sapiens.

XX MO2904265-A2.

XX 28-JAN-1999.

XX 15-JUL-1998: 98MO-US14679.

XX 22-JUN-1998: 98US-0102322.

XX 17-JUL-1997: 97US-0856164.

XX 10-OCT-1997: 97US-0061599.

XX 10-OCT-1997: 97US-0061785.

XX 11-OCT-1997: 97US-0948705.

XX 11-OCT-1997: 97US-0021697.

XX (LUDW-) LUDWIG INST CANCER RES.

XX Chen Y, Gout I, Gure A, O'Hare M, Obata Y, Old LJ;
PI Pfeundschnig M, Sahin U, Scanlan MJ, Stockert E;
PI Tureci O;

XX MPI: 1999-122448/11.

XX New isolated cancer associated nucleic acids and polypeptides
PI isolated using sera from cancer patients, used to develop products
PI for the diagnosis, monitoring or treatment of cancers

XX Claim 67: Page 500-502; 787pp; English.

XX The invention relates to a method for diagnosing a disorder characterised
CC by expression of a human cancer associated antigen precursor coded for by
CC a nucleic acid molecule (NAM). The method comprises: (a) contacting a
CC biological sample isolated from a subject with an agent for specifically
CC binding to the antigen precursor or fragment of an expression
CC product complexed with an HLA molecule; and (b) determining the
CC interaction between the agent and the NAM or the expression product as a
CC the diagnosis, monitoring, research, or treatment of conditions

CC Characterised by the expression of various cancer associated antigens.

CC The invention provides nucleic acid sequences and encoded polypeptides
CC which are cancer associated antigen precursors expressed in human breast
CC cancer, renal cancer, colon cancer, gastric cancer, prostate cancer and
CC lung cancer.

XX Sequence 5306 BP: 1867 A: 973 C: 1076 G: 1390 T: 0 other:

Query Match 3.5%; Score 21; DB 20; Length 5306;

Best Local Similarity 100.0%; Pred. No. 27;
Matches 21: Conservative 0; Mismatches 0; Indels 0; Gaps 0;OY 570 atatttcaaaaaaaaaaaaaa 590
DB 1100 AATATTGAAADAAAADAAAADAA 1090RESULT 36
AAH50530/C
ID AAH50530 standard: DNA: 5750 BP.
XX AAH50530;


```

OS Synthetic.
OS Pneumocystis carinii.
XX US5912140-A.
XX 15-JUN-1999.
XX 03-APR-1995: 95US-0415593.
XX 03-APR-1995: 95US-0415593.
XX (CUBIST PHARM INC.
XX Politis-Vilk KI, Quinn CL, Schimmel PR, Tao N, Whoriskey SK:
XX WPI: 1999-357196/30.
XX Nucleic acids encoding pneumocystis carinii aminoacyl-tRNA
XX synthetase enzymes useful for detecting similar sequences in samples
XX and in the study and treatment of pneumonia in Acquired Immune
XX Deficiency Syndrome patients
XX Example 17: Column 47: 65pp: English.
XX The present invention describes pneumocystis carinii (P. carinii)
XX aminoacyl-tRNA synthetase enzymes. The nucleic acids encoding aminoacyl-
XX tRNA synthetase enzymes may be used to produce expression vectors and
XX host cells for the recombinant production of pneumocystis aminoacyl-tRNA
XX synthetase enzymes. The nucleic acids may also be used to produce
XX antibodies. The nucleic acids may also be used to produce
XX antibodies (which contain the nucleic acids) which may be used to test
XX candidate drugs (e.g. tRNA synthetase inhibitors) for the treatment of
XX disorder associated with P. carinii such as pneumonia which is a common
XX complication for Acquired Immune Deficiency Syndrome (AIDS) patients and
XX other immuno-compromised individuals. Additionally, they may also be
XX used to detect and isolate related DNAs in sample (i.e. they can be used
XX as probes). The present sequence represents a PCR primer for a
XX pneumocystis aminoacyl-tRNA synthetase, used in an example from the
XX present invention.
XX Sequence 35 BP: 7 A: 5 C: 2 G: 21 T: 0 other:
XX
XX Query Match 3.4%: Score 20: DB 20: Length 35:
XX Best Local Similarity 100.0%: Pred. No. 1.2e+02:
XX Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX Oy 571 tatttaaaaaaaaaaaaaa 590
XX 30 TATTTAAAAAAAAAAAAA 11
XX Db
XX
XX RESULT 39
XX AA76360/C
XX ID AA76360 standard: DNA: 40 BP.
XX AC
XX XX
XX AC AA76360:
XX XX
XX XX 05-AUG-1999 (first entry)
XX DE Pneumocystis carinii lysyl-tRNA synthetase PCR primer 33.
XX XX
XX XX Pneumocystis carinii: lysyl-tRNA synthetase; tyrosyl-tRNA synthetase;
XX aminoacyl-tRNA synthetase; pneumonia: AIDS; immuno-compromised:
XX Acquired Immune Deficiency Syndrome: detection: PCR primer: ss.
XX OS Synthetic.
XX OS Pneumocystis carinii.
XX XX US5912140-A.
XX XX
XX PD 15-JUN-1999.

```

```

XX 03-APR-1995: 95US-0415593.
XX 03-APR-1995: 95US-0415593.
XX (CUBIST PHARM INC.
XX Politis-Vilk KI, Quinn CL, Schimmel PR, Tao N, Whoriskey SK:
XX WPI: 1999-357196/30.
XX Nucleic acids encoding pneumocystis carinii aminoacyl-tRNA
XX synthetase enzymes useful for detecting similar sequences in samples
XX and in the study and treatment of pneumonia in Acquired Immune
XX Deficiency Syndrome patients
XX Example 16: Column 44: 65pp: English.
XX The present invention describes pneumocystis carinii (P. carinii)
XX aminoacyl-tRNA synthetase enzymes. The nucleic acids encoding aminoacyl-
XX tRNA synthetase enzymes may be used to produce expression vectors and
XX host cells for the recombinant production of pneumocystis aminoacyl-tRNA
XX synthetases. The proteins may then be used in other procedures such as
XX separating amino acids from samples or as antigens in the production of
XX antibodies. The nucleic acids may also be used to produce
XX antibodies (which contain the nucleic acids) which may be used to test
XX candidate drugs (e.g. tRNA synthetase inhibitors) for the treatment of
XX disorder associated with P. carinii such as pneumonia which is a common
XX complication for Acquired Immune Deficiency Syndrome (AIDS) patients and
XX other immuno-compromised individuals. Additionally, they may also be
XX used to detect and isolate related DNAs in sample (i.e. they can be used
XX as probes). The present sequence represents a PCR primer for a
XX pneumocystis aminoacyl-tRNA synthetase, used in an example from the
XX present invention.
XX Sequence 40 BP: 8 A: 6 C: 4 G: 22 T: 0 other:
XX
XX Query Match 3.4%: Score 20: DB 20: Length 40:
XX Best Local Similarity 100.0%: Pred. No. 1.2e+02:
XX Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
XX
XX Oy 571 tatttaaaaaaaaaaaaaa 590
XX 35 TATTTAAAAAAAAAAAAA 15
XX Db
XX
XX RESULT 40
XX AA17027/C
XX ID AA17027 standard: DNA: 42 BP.
XX AC
XX XX
XX AC AA17027:
XX XX
XX XX 04-OCT-1996 (first entry)
XX DE Human mitochondrial DNA heavy chain primer H16070.
XX XX
XX XX Human: mitochondrial DNA: heavy chain: primer: polymorphism:
XX identification: discrete single nucleotide bases: method: screen:
XX genetic disease: DNA typing: forensic testing: microorganisms: ss.
XX OS Homo sapiens.
XX OS Key Location/Qualifiers
XX FT misc_feature 1..17
XX FT /note="5'-polyT tail, opt. polyA"
XX FN KC9506187-A1.
XX PD 29-FEB-1996.
XX XX
XX XX 21-AUG-1995: 95MO-GR01987.

```


[illegible]

	XZ	Sequence	115 BP; 48 A; 23 C; 23 G; 21 U; 0 other:	
OY	XX	Quantity Match	3.4% Score 20; DB 21;	Length 115;
		Best Local Similarity	80.0%; Pred. No. 1e-02;	
Matches	16;	Conservative	4;	Mismatches 0; Indels 0; Caps 0;
OY	71	Tatttaaaaaaa	590 :::	
Cb	91	wauuuuaaaaaaaaaaas	110	
PSSM1: 44				
ID	AAA1926/C			
AC	XXX	Standard: DNA; 242 bp.		
AA	AAA1926:			
DJ	05-JUL-2000	(first entry)		
DX	Plant microsatellite marker #887.			
KW	Plant microsatellite sequence; core repeat sequence; detection; probe:			
KX	DNA polymorphism; genome mapping; physical mapping; fingerprinting;			
KM	variety identification; genetic variability evaluation; primer: ss.			
CS	Eucalyptus grandis.			
XA	WG9567421-A1.			
FD	29-DEC-1999.			
FE	25-JUN-1999:	99NO-NZD0062.		
PR	25-JUN-1998:	98US-O105307.		
PA	(GENE-) GENESIS PER & DEV CORP LTD & FLETCHER,			
PP	(FIRM) FLETCHER CHALLENGER FORESTRY LTF,			
PI	Hawkeala IJ, Rokehera LN, Glenn M:			
DR	WP1: 2000-115958/10.			
XX	New plant microsatellite markers and associated flanking species for			
FT	detection of polymorphic genetic markers -			
CI	Claim 1: Page 337: 392pp: English.			
CC	Sequences AAA1040-A12093 represent novel plant microsatellite sequences			
CC	and associated flanking species. The sequences comprise a central core			
CC	repeat sequence, especially selected from the sequences AAA1094-A12096			
CC	with left and right flanking sequences. The polynucleotide sequences			
CC	can be used in the detection of DNA polymorphisms, in genome mapping,			
CC	In physical mapping, In positional cloning experiments, in genotyping			
CC	between plant tissues (populations, cultivars, species and varieties			
CC	clonings). They may also be used to design hybridization probes for			
CC	oligonucleotide fingerprinting and library screening and to design			
CC	primers for microsatellite primed PCR. Microsatellite markers are			
CC	useful to locate specific economically useful genes in plant genomes.			
SO	Sequence 242 BP: 106 A; 23 C; 20 G; 43 T; 0 other:			
OY	Query Match	3.4%	Score 20; DB 21;	Length 242;
	Best Local Similarity	100.0%;	Pred. NC .95;	
Matches	20;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
OY	571	tatttaaaaaaaaaaaa	590 	
Cb	119	TAATTTAAAAAAdadada	100	

RESULT 45
AA208301
ID AA208301 standard: cDNA: 278 BP.
XX
XX
AA208301:
XX
DT 13-OCT-1999 (first entry)
XX
XX Human Lung tumour protein SAL-109 5' cDNA sequence.
XX
XX Human: Lung tumour protein: therapy: diagnosis: lung cancer: vaccine:
XX Immunotherapy: detection: inhibition: ss.
XX
XX Homo sapiens.
XX
XX MO9938973-A2.
XX
XX 05-AUG-1999.
XX
XX
XX 26-JAN-1999: 99MO-US01642.
XX
XX 22-DEC-1998: 98US-0219245.
XX 28-JAN-1998: 98US-0015022.
XX 28-JAN-1998: 98US-0015023.
XX 18-MAR-1998: 98US-0040828.
XX 18-MAR-1998: 98US-0040831.
XX 23-JUL-1998: 98US-0122191.
XX 23-JUL-1998: 98US-0122192.
XX
XX (CORI-) CORIAX CORP.
XX
XX
XX Frudakis TW, Lodes MJ, Mohamath R, Reed SG:
XX
XX MPI: 1999-479187/40.
XX
XX
XX Lung tumour specific polynucleotides for inhibiting the development
XX of lung cancer
XX
XX
XX Claim 13: Page 139: 171pp: English.
XX
XX The present invention describes lung tumour specific polynucleotides
XX and tumour antigens. AA207144 to AA207245 and AA208301 to AA208325
XX represent specifically claimed polynucleotides, and AA23495 to AA23571
XX represent amino acid sequences from the present invention. The lung
XX tumour specific polynucleotides and polypeptides can be used in
XX pharmaceutical compositions and vaccines to inhibit the development of
XX lung cancer. They can also be used to detect lung cancer in a patient.
XX Probes and antibodies derived from the lung tumour sequences are useful
XX in detection of lung cancer.
XX
XX Sequence 278 BP: 113 A: 41 C: 45 G: 79 T: 0 other:
XX
XX

Search completed: April 30, 2002, 11:15:48
Job time: 12217 sec

Query Match 3.4% Score 20: DB 20: Length 278:
Best Local Similarity 100.0% Pred. No. 93:
Matches 20: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
07 571 tatttaaaaaaaaaaaaaa 590
1111111111111111111111
Db 30 tatttaaaaaaaaaaaaaa 49

[illegible]

4
 AA160763 standard: cDNA: 1556 bp.
 AA160763
 42-OCT-2001 (first entry)
 Human polynucleotide SEQ ID NO 4772.
 Human: nucleotide; immunosuppressant; cytoskeletal; gene therapy; cancer; peripheral neuropathy; amyotrophic lateral sclerosis; Huntington's disease; hemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemoradio; chemoradiotherapy; thrombolytic; drug screening; arthritis; inflammation; leukemias; ss.
 Hemo sapiens.
 M0300135312-A1.
 45-JUL-2001.
 26-DEC-2000; 2000W-US34263.
 31-JAN-2000; 2000S-0488725.
 25-APR-2000; 2000S-0552317.
 09-JUL-2000; 2000S-0558042.
 19-JUL-2000; 2000S-0620312.
 03-AUG-2000; 2000S-0623450.
 14-SEP-2000; 2000S-0653032.
 14-SEP-2000; 2000S-0653032.
 25-NOV-2000; 2000US-072344.
 (HSE-) HYSEQ INC.
 Yang Y, Liu C, Asundi V, Chen R, Ma Y, Qian XG, Ren F, Wang D, Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QX, Zhou P, Goodrich R, Druanue RT.
 441: 2001-44225/47.
 P-TSDB: AAM1627.
 Local nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries -
 Claim 1: SEQ ID NO 4772: 16076pp: English.
 The invention relates to human nucleic acids (AA17726-AA16165) and the encoded polypeptides described therein. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localized neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: immune system suppression, static activation/inhibin activity, chemocytic/chemokinetic activity, drug screening and immunosuppression activity, cancer therapy and inflammatory diseases and CNS disorders.
 Note: The sequence data for this patent did not form part of the printed specification.
 Sequence 1556 bp, 613 A; 339 C; 442 G; 564 T; 0 other:
 -very Match 88.5% Score 55% Db 23: Length 1556:
 Best Local Similarity 59.9% Pctd. N. 0:
 Matched 109% Conservative 0: Mismatched 0: Indels 1: Gaps 1

QY	1	agccgaagaacacaaiaaaccctcgtgctctccttgaagcccaatcctaataaac	60
Dy	1533	atctccagaaacacaaiaaaccctcgtgctctccttgaagcccaatcctaataaac	1473
Dy	61	catttcggtgcgtgaatggaataatacaatcattagctcgagcaagggatcgctc	120
QY	121	tgagacacagctgtagcagctcaaaacacgcttggaataaccccgacagctgtcccttc	180
Dy	1413	tgcgaacacagctgtagcagctcaaaacacgcttggaataaccccgacagctgtcccttc	1353
QY	181	cattcaaaagagccctccatcccgatccgaggaatgagctgtcttcaaaaacataatcct	240
Dy	1353	tattttaaataagccctccatcccgatccgaggaatgagctgtcttcaaaaacataatcct	1253
QY	241	caatgtgtatcttcgaataaacacacacataacataagctgtgtcttcgtagaacatgctc	300
Dy	1233	taattgttgaattctcgaataaacacacacataacataagctgtgtcttcgtagaacatgctc	1173
QY	301	tatgtacatattctccctccaaagcgaacccctccctccgaagagtggaatacgtgatcttcca	360
Dy	1173	acaaatccagggcaaaaacccctccaaagcgaacccctccctccgaagagtggaatacgtgatcttcca	1113
QY	421	gaagaccaccaatgatacaccctgggaataccacacacagctcgaattcttccaaaccagaagatc	480
Dy	1113	gaagaccaccaatgatacaccctgggaataccacacacagctcgaattcttccaaaccagaagatc	1053
QY	481	caaaactccgggaataatgagtgccctctctgctgctgcctcgaataatccgatac	555
Dy	1053	ccaaactccgggaataatgagtgccctctctgctgctgcctcgaataatccgatac	954
QY	540	aacgaagattccagagagcagatcttcccaaaattgaagtctcatcttgatcccaatg	595
Dy	933	actgcacatctgtatagatttcccaaaattgaagtctcatcttgatcccaatg	875
QY	600	actggaagaagtctgattctgaccaaaatacccgagccctccaaagtctgttgggttaac	655
Dy	933	actgcacatctgtatagatttcccaaaattgaagtctcatcttgatcccaatg	875
QY	720	cgtgactcgtgagctctgtgaattcttctcaaaacacattcttaacagatccatgctccg	775
Dy	813	cgtgactcgtgagctctgtgaattcttctcaaaacacattcttaacagatccatgctccg	754
QY	780	caaaagagccctcgtgctctccaaagagtgatcgaagaagaagccatcttccgac	835
Dy	753	caaaagagccctcgtgctctccaaagagtgatcgaagaagaagccatcttccgac	654
QY	840	catctcaacagacacaaaagttctccatcatcttctgtaactgtgaaagaagataatc	895
Dy	900	catctcaacagacacaaaagttctccatcatcttctgtaactgtgaaagaagataatc	855
QY	960	cattgccttttaattcattcctctgattcttctccaaatataagctggaatcctctt	955
Dy	633	cattgccttttaattcattcctctgattcttctccaaatataagctggaatcctctt	574
QY	960	cattgccttttaattcattcctctgattcttctccaaatataagctggaatcctctt	1015
Dy	573	cattgccttttaattcattcctctgattcttctccaaatataagctggaatcctctt	514
QY	1020	gaataaacctccgtggaataatacaacacgtggagctgataaagaatgagtgagaacac	1075
Dy	513	gaataaacctccgtggaataatacaacacgtggagctgataaagaatgagtgagaacac	454

	AAZ47116.7	standard; CDK8; 1920 bp.
1D	AAZ47116	
XX		
XX	AAZ47116:	
DE	15-MAR-2006	(first entry)
DE	Human: CD40 receptor associated protein gene.	
XX	Antitumor/antibacterial; antiproliferative; neuroprotective; dermatological;	
XX	Human: CD40 receptor associated protein; CDAP; cytoplasmic domain;	
XX	tumour necrosis factor; TNF; receptor; superfamily; CD30; homology;	
XX	TNF receptor associated factor; TRAF; modulator; signalling pathway;	
KM	diagnosis; NF-kappaB; Jun; kinase; atherosclerosis; multiple sclerosis;	
KM	atralitis; systemic lupus erythematosus; graft rejection; allergy;	
KM	graft versus host disease; autoimmune disease; ds.	
XX		
OS	BCL6 sapientis.	
XX		
PA	M0955655-A2.	
PD	04-NOV-1995.	
XX		
XX	26-APR-1999: 59MO-EPO3025.	
FF	XX	
XX	29-APR-1999: 50cpl-U201392.	
PA	(VLDA-) VLDBMS INTERNETVESTRATE INSIT BIOECONOM.	
XX		
XX	Pyrre SMC. Remake JEFQ3. Haylelbeck HE:	
LA	WP1: 2000-062029/05.	
LR	P-PStab: AAZE015.	
PT	Novel proteins used to treat inflammatory diseases, NF-kappa related	
PT	diseases and for improvement of anti-tumor treatments	
PA	Claim 9', page 37-39; 48pp; English.	
CC	This sequence represents the gene encoding human CD40 receptor	
CC	associated protein (CDRP). CDAP is a functional protein capable of	
CC	interacting with the cytoplasmic domain of CD40 and/or other receptors	
CC	of the tumor necrosis factor (TNF) receptor superfamily such as CD30	
CC	and the receptor 1, where the protein has a homology	
CC	association of the CD40 signaling pathway. The protein can be	
CC	disgaged and treat HIV-related, CD40-related, NF-kappa related and/or	
CC	Jur (kinase)-related diseases, and for the improvement of anti-tumor	
CC	diseases. Diseases which may be treated include atherosclerosis, graft	
CC	arthritis, multiple sclerosis, systemic lupus erythematosus, graft	
CC	The proteins can be used to sensitize tumour cells to activate	
CC	treatments and to screen for compounds that inhibit tumour	
CC	growth and metastasis in vivo with other protein components of the	
CC	TRAF, CD40 or NF-kappa related pathway.	
XX		
XX	Sequence 1920 BP: 559 A; 327 C; 435 G; 557 T; 2 others:	
CY	Query Match	84.2% Score 508; Db 21; Length 1920;
CU	Best Local Similarity	95.8%; Pval: 0.0; Mismatches 1; Indels 1; Gaps 1
CU	Matches 1086; Conserved: 0;	
CY	1 agtccgaagactcaataacattcgatcttccttttaagaagcatatttaaatatcac	60
CU	1502 AGTCCGAAGACTCAATAACATTCGTATTGCTTTTGTAAGACTATTATTAATATCAC	1443
CY	61 tatttcgtgcctgatgatgaaataaaaataaacataagcctcagagacaatgggtagcctgc	120
CU	1443 TATTTCGTCGCTGATGATGAAAATAAACAATACCTCAGAGACAAATGGTAGCTGCTT	1583

Wed May 1 07:51:09 2002

us-09-248-178-63.ring

QY 121 tggatccagctggcagctctcagcagctggaaatctg-aaagctctggcccttt 180
 DB 1382 tgcacatccacgctccacgctctcagcagctggaaatctg-aaagctctggcccttt 1223
 QY 181 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 240
 DB 1322 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1263
 QY 241 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 300
 DB 1262 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1203
 QY 301 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 360
 DB 1202 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1143
 QY 361 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 420
 DB 1142 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1083
 QY 421 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 480
 DB 1082 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1023
 QY 481 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 539
 DB 1022 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 563
 QY 540 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 599
 DB 962 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 503
 QY 600 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 655
 DB 502 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 843
 QY 660 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 719
 DB 842 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 783
 QY 720 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 779
 DB 782 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 723
 QY 780 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 839
 DB 722 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 663
 QY 840 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 899
 DB 662 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 603
 QY 900 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 959
 DB 602 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 543
 QY 960 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1019
 DB 1020 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1079
 QY 1020 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1079
 DB 482 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 423

XX 121 tggatccagctggcagctctcagcagctggaaatctg-aaagctctggcccttt 180
 XX 1382 tgcacatccacgctccacgctctcagcagctggaaatctg-aaagctctggcccttt 1223
 XX 181 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 240
 XX 1322 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1263
 XX 241 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 300
 XX 1262 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1203
 XX 301 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 360
 XX 1202 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1143
 XX 361 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 420
 XX 1142 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1083
 XX 421 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 480
 XX 1082 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1023
 XX 481 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 539
 XX 1022 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 563
 XX 540 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 599
 XX 962 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 503
 XX 600 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 655
 XX 502 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 843
 XX 660 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 719
 XX 842 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 783
 XX 720 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 779
 XX 782 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 723
 XX 780 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 839
 XX 722 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 663
 XX 840 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 899
 XX 662 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 603
 XX 900 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 959
 XX 602 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 543
 XX 960 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1019
 XX 1020 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 1079
 XX 482 tattaatggcctcagcagctctcagcagctggaaatctg-aaagctctggcccttt 423

Query Match 84.2% Score 508 DB 20 Length 2495
 Percent Similarity 99.8% Pred. No. 0
 Matches 1078 Conservative 0 Mismatches 1 Indels 1 Gaps 1

[illegible]

[illegible]

XX	RESULT 7
XX	AAM15146/C
ID	AAM15146 structured; cDNA; 1exon bp.
XX	
XX	AAM15146:
AC	
XX	
DT	26-JUN-2001 (first entry)
XX	
DE	Human cDNA sequence SEQ ID NO:1309.
XX	
KW	Human; primer; detection; diagnosis; antisense therapy; false discovery
XX	
OS	Homo sapiens.
PX	
PN	EPI074617-A2.
XX	
PD	07-FEB-2001.
XX	
PF	28-JUL-2000; 200DEP-0116126.
XX	
PR	29-JUL-1999; 99JP-0246036.
XX	
PR	27-AUG-1993; 93JP-0306251.
XX	
PR	11-JAN-2000; 2000JP-0118776.
XX	
PR	02-MAY-2000; 2000JP-0183767.
XX	
PR	09-JUN-2000; 2000JP-0241699.
XX	
XX	(HELI-) HELIX RES INST.
XX	
PT	Ota T, Ishii K, Nishikawa I, Miyajiri M, Saito H, et al., "Isolation of cDNAs encoding novel proteins from human placenta," J Biol Chem 271:1111-1116 (1996).
PI	Ishii S, Shojiyama T, Nakamura A, Nagai K, Otsu K, et al., "Cloning and expression of a novel protein, Heli-1, from human placenta," FEBS Lett 391:15-19 (1996).
XX	
DR	WPI: 2001-318749/34.
XX	
PT	Primer sets for synthesizing polynucleotides, particularly, the first and/or second primers, and methods for amplifying nucleic acids by the PCR full-length cDNAs defined in the specification, and for the detection of full-length cDNAs and/or diagnosis of the abnormality of the genes encoding the proteins and/or the expression of the genes.

[illegible]

Query Match 8.7%: Score 94; DB 22; Length 444;
 Best Local Similarity 100.0%; Pred. No. 4.7e-37;
 Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 964 accgtgaataatcatalactactgactctctcttagtagtagcataataatgaggaat 1023
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 346 ACCGTGAATATCTCATATATCTGATCTCTTTAGTAGAGTATATATGGGGAAAT 287
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 1024 aacttcctgtagaataatcacatctggagctgac 1057
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 286 AACTTCCTGTAGAAATATCATCTGGCTGTAC 253

RESULT 11
 ID AAI24484/C
 AA124484 standard; DNA; 691 BP.

AC AAI24484;
 DT 12-OCT-2001 (first entry)
 DE Probe #14417 for gene expression analysis in human cervical cell sample.
 XX Probe: human; microarray; gene expression; cervical epithelial cell;
 KM cervical cancer; ss.

XX Homo sapiens.

PN MO200157278-A2.

PD 09-AUG-2001.

XX 30-JAN-2001; 2001MO-US00670.

XX 04-FEB-2000; 2000US-0180312.

FR 26-MAY-2000; 2000US-0207456.

FR 30-JUN-2000; 2000US-0608408.

FR 03-AUG-2000; 2000US-0632366.

FR 21-SEP-2000; 2000US-0234687.

FR 27-SEP-2000; 2000US-0236359.

FR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PA Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488901/53.

PT Human genome-derived single exon nucleic acid probes useful for

PT analyzing gene expression in human cervical epithelial cells -

PS Claim 25; SEQ ID NO 14417; 487bp; English.

XX The present invention relates to human single exon nucleic acid probes
 CC (SEMP). The present sequence is one such probe. The SEMPs are derived
 CC from human HeLa cells. The SEMPs can be used to produce a single exon
 CC microarray, which can be used for measuring human gene expression in a
 CC sample derived from human cervical epithelial cells. By measuring gene
 CC expression, the probes are therefore useful in grading and/or staging
 CC of diseases of the cervix, notably cervical cancer.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pcr_sequences.

XX Sequence 691 BP; 230 A; 81 C; 112 G; 268 T; 0 other;

Query Match 8.7%: Score 94; DB 22; Length 691;
 Best Local Similarity 100.0%; Pred. No. 4.7e-37;
 Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 964 accgtgaataatcatalactactgactctctcttagtagtagcataataatgaggaat 1023

DB 208 ACCGTGAATATCTCATATATCTGATCTCTTTAGTAGAGTATATATGGGGAAAT 149
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

QY 1024 aacttcctgtagaataatcacatctggagctgac 1057
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 148 AACTTCCTGTAGAAATATCATCTGGCTGTAC 115

RESULT 12
 ID AAX40590/C
 AAX40590 standard; cDNA; 483 BP.

AC AAX40590;
 DT 18-JUN-1999 (first entry)

DE Human secreted protein 5' EST SEQ ID NO: 150.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;
 KM forensic; gene therapy; chromosome mapping; signal peptide; prostate;
 KM upstream regulatory sequence; cytokine activity; cell proliferation;
 KM differentiation; haematopoiesis regulation; tissue growth regulation;
 KM reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
 KM thrombolytic; anti-inflammatory; tumour inhibition; ds.

XX Homo sapiens.

OS MO9906550-A2.

XX 11-FEB-1999.

XX 31-JUL-1998; 58MO-1B01232.

PR 01-AUG-1997; 97US-0905144.

XX (GEST) GENSET.

PA Duclert A, Dumas Milne Edwards J, Lacroix B;

XX WPI: 1999-153780/13.

DR P-PSDB; AAY11868.

XX New isolated prostate-derived nucleic acids - used to develop

PT products which may have cytokine, immune regulatory, haematopoiesis

PT regulating, anti-inflammatory or tumour inhibition activity

PS Claim 1; Page 298; 675bp; English.

CC AAX4035 to AAX40715 represent 5' expressed sequence tags (ESTs) for
 CC human secreted proteins expressed in prostate, and encode the proteins
 CC given in AAY11716 to AAY11993 respectively. The proteins given represent
 CC the signal peptide and an N-terminal fragment of a secreted protein. The
 CC nucleic acid sequences can be used for producing secreted human gene
 CC products. They can also be used to develop products for diagnosis and
 CC therapy. The proteins obtained may have cytokine activity, cell
 CC proliferation and differentiation activity, haematopoiesis regulation
 CC activity, tissue growth regulating activity, reproductive hormone
 CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
 CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity, tumour inhibition activity or other activities. The products
 CC can be used in forensic, gene therapy and chromosome mapping procedures
 CC The sequences can also be used for obtaining corresponding promoter
 CC sequences. The nucleic acids encoding the signal peptides can be used f.
 CC detecting extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell.

XX Sequence 483 BP; 123 A; 111 C; 139 G; 110 T; 0 other;

Query Match 7.4%: Score 80; DB 20; Length 483;
 Best Local Similarity 100.0%; Pred. No. 4.7e-30;
 Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1000 taagtagctataatcctggggaataactctcgtcgaatacaccatcctggtctgtacaa 1059
 DB 483 TAGGTAGCTATATATGGGGGAATTAACCTCTCTGTAGAAATATCACAATCTGGCTGTACAA 424
 QY 1060 agctaagtaggaacacaccc 1079
 DB 423 AGCTAGTAGGACACACCCC 404

RESULT 13
 AA68598
 ID AA68598 standard; DNA: 47 BP.
 XX
 AC AA68598;
 XX
 DT 10-SEP-2001 (first entry)
 XX
 DE Human map-related biallelic marker SEQ ID NO:2947.
 XX
 KM Human genome; biallelic marker; high density disequilibrium map;
 KM genomic map; haplotype; phenotype; polymorphic base; genotyping;
 KM haplotyping; hybridisation; identification; characterisation;
 KM diagnosis; single nucleotide polymorphism; SNP; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT replacement(24,C)
 FT variation /tag= a
 FT /standard_name= "single nucleotide polymorphism"
 FT
 FT
 PN K0954500-A2.
 XX
 PN 28-OCT-1999.
 PD
 PD
 PF 21-APR-1999; 99MO-IB0822.
 XX
 PF 21-APR-1998; 98US-0082614.
 PR 23-NOV-1998; 98US-0109732.
 XX
 PA (GEST) GENSET.
 XX
 PI Cohen D, Blumenfeld M, Chumakov I;
 XX
 PI WPI: 2000-013267/01.
 DR
 PT Novel biallelic markers used to construct a high density disequilibrium
 PT map of the human genome -
 XX
 PS Claim 3: Page 859; 2745pp; English.

CC AA685654 to AA69578 represent human biallelic markers from the present
 CC invention, which contain a polymorphic base at position 24 of their
 CC nucleotide sequences. AA69579 to AA77440 represent amplification
 CC primers for the biallelic markers. The biallelic markers of the
 CC invention have a variety of uses: they can be used for high density
 CC mapping of the human genome, and in complex association studies and
 CC haplotyping studies which are useful in determining the genetic basis
 CC for disease states. Compositions and methods of the invention can also
 CC be useful for the identification of the targets for the development of
 CC pharmaceutical agents and diagnostic methods, as well as the
 CC characterisation of the differential efficacious responses to and side
 CC effects from pharmaceutical agents acting on a disease as well as other
 CC treatment.
 CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
 CC and 3367, are not actually given a sequence in the sequence listing
 CC from the present invention.
 XX
 SQ Sequence 47 BP; 11 A; 6 C; 6 G; 24 T; 0 other;

Query Match 4.4%; Score 47; DB 21; Length 47;
 Best Local Similarity 100.0%; Pred. No. 1.4e-13;

Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 27 tcttctcttgagagactattttaaataactaactcgttgcct 73
 DB 1 tcttctcttgagagactattttaaataactaactcgttgcct 47

RESULT 14
 AAH13035
 ID AAH13035 standard; CDNA: 579 BP.
 XX
 AC AAH13035;
 XX
 DT 26-JUN-2001 (first entry)
 XX
 DE Human cDNA clone (3'-primer) SEQ ID NO:9870.
 XX
 KM Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 XX
 OS Homo sapiens.
 XX
 PN EP1074617-A2.
 PD
 PD 07-FEB-2001.
 PF 28-JUL-2000; 2000EP-0116126.
 PR 29-JUL-1999; 99JP-0248036.
 PR 27-AUG-1999; 99JP-0300253.
 PR 11-JAN-2000; 2000JP-0118776.
 PR 02-MAY-2000; 2000JP-0183767.
 PR 05-JUN-2000; 2000JP-0241899.
 XX
 PA (HELI-) HELIX RES INST.
 XX
 PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 XX
 DR WPI: 2001-318749/34.
 XX
 PI Primer sets for synthesizing polynucleotides, particularly the 5602
 PI full-length cDNAs defined in the specification, and for the detection
 PI and/or diagnosis of the abnormality of the proteins encoded by the
 PI full-length cDNAs -
 XX
 PS Claim 3: SEQ ID 9870; 2537pp + CD ROM; English.

CC The present invention describes primer sets for synthesizing 5602
 CC full-length cDNAs defined in the specification. Where a primer set
 CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
 CC to the complementary strand of a polynucleotide which comprises one of
 CC the 5602 nucleotide sequences defined in the specification, where the
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 CC of an oligonucleotide comprising a sequence complementary to a
 CC complementary strand of a polynucleotide which comprises a 5'-end
 CC sequence and an oligonucleotide comprising a sequence complementary to a
 CC polynucleotide which comprises a 3'-end sequence, where the combination of
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence/3'-end sequence is selected from those defined in
 CC the specification. The primer sets can be used in antisense therapy and
 CC in gene therapy. The primers are useful for synthesizing polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAH0316 to AAH13028 and
 CC AAH1633 to AAH18742 represent human cDNA sequences; AAB92446 to
 CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
 CC represent oligonucleotides, all of which are used in the exemplification
 CC of the present invention.
 XX
 SQ Sequence 579 BP; 204 A; 97 C; 79 G; 191 T; 8 other;

Query Match 4.2%; Score 45; DB 22; Length 579;
Best Local Similarity 100.0%; Pred. No. 1.5e-12;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 51 aaatattactatcgcgtgcctgaatggaataataacatca 95
|||||
DB 467 aaatattactatcgcgtgcctgaatggaataataacatca 511

RESULT 15

AAZ47119/C
ID AAZ47119 standard; cDNA; 1312 BP.

AC AAZ47119;

DT 15-MAR-2000 (first entry)

DE Mouse CD40 receptor associated protein gene.

XX Antiartherosclerotic; antiarthritic; neuroprotective; dermatological;
KM immunosuppressive; antiinflammatory; immunosuppressive; anti allergic;
KM mouse; CD40 receptor associated protein; CRAP; cytoplasmic domain;
KM tumor necrosis factor; TNF; receptor; superfamily; CD30; homology;
KM TNF receptor associated factor; TRAF; modulator; signalling pathway;
KM diagnosis; NF-kappaB; Jun; kinase; atherosclerosis; multiple sclerosis;
KM arthritis; systemic lupus erythematosus; graft rejection; allergy;
KM graft versus host disease; autoimmune disease; ds.

OS Mus musculus.

PN MO955859-A2.

PD 04-NOV-1999.

PE 28-APR-1999; 99WO-EP03025.

PR 25-APR-1998; 98EP-0201392.

XX (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.

PA Pype SMC, Remacle JEFJG, Huylebroeck DFE;

PI WPI; 2000-062029/05.

DR P-PSDB: AAY56020.

XX Novel proteins used to treat inflammatory diseases. NF-kappaB related

PT diseases and for improvement of anti-tumor treatments

PS Claim 10; Page 41-43; 48pp; English.

XX This sequence represents the gene encoding mouse CD40 receptor
CC associated protein (CRAP). CRAP is a functional protein capable of
CC interacting with the cytoplasmic domain of CD40 and/or other receptors
CC of the tumor necrosis factor (TNF) receptor superfamily such as CD30
CC and TNF receptor 1, where the protein has no homology to TNF receptor
CC associated factor (TRAF)-proteins. The CD40 binding proteins can be
CC used as modulators of the CD40 signalling pathway, especially to
CC diagnose and treat TRAF-related, CD40-related, NF-kappaB related and/or
CC Jun (kinase)-related diseases, and for the improvement of anti-tumor
CC diseases. Diseases which may be treated include atherosclerosis,
CC arthritis, multiple sclerosis, systemic lupus erythematosus, graft
CC rejection, graft versus host disease, allergy, and autoimmune disease.
CC The proteins can be used to sensitize tumor cells to anti-tumor
CC treatments and to screen for compounds which interfere with the
CC interaction of the proteins with other protein components of the
CC TRAF, CD40 or NF-kappaB related pathway.

CC Sequence 1312 BP; 359 A; 279 C; 352 G; 322 T; 0 other;

Query Match

Best Local Similarity 3.3%; Score 36; DB 21; Length 1312;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 765 ctctggtctcctcaaatggaatgcatgaaggcaaa 824
|||||
DB 845 ctctggtctcctcaaatggaatgcatgaaggcaaa 810

RESULT 16

AAH33140
ID AAH33140 standard; cDNA; 417 BP.

AC AAH33140;

DT 03-SEP-2001 (first entry)

DE Human colon cancer antigen encoding cDNA seq ID NO:146.

KM Human; colon cancer; colon cancer antigen; diagnosis; detection;
KM colorectal carcinoma; chromosome X; ss.

OS Homo sapiens.

PN WO20012920-A2.

PD 05-APR-2001.

PE 28-SEP-2000; 2000WO-US26524.

PR 29-SEP-1999; 99US-0157137.

PR 03-NOV-1999; 99US-0163280.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Ruben SM, Barash SC, Birse CE, Rosen CA;

XX WPI; 2001-235357/24.

DR P-PSDB: AAG73709.

XX Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT useful for preventing, diagnosing and/or treating colorectal cancers

PS Claim 1; Page 2344; 9803pp; English.

XX AAH3254; to AAH37195 and AAG73514 to AAG77788 represent human colon
CC cancer-associated nucleic acid molecules (N) and proteins (P), where
CC the proteins are collectively known as colon cancer antigens. The colon
CC cancer antigens have cytosolic activity and can be used in gene
CC therapy and vaccine production. N and P may be used in the prevention,
CC diagnosis and treatment of diseases associated with inappropriate P
CC expression. For example, N and P may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of P by expressing
CC inactive proteins or to supplement the patients own production of P.
CC Additionally, N may be used to produce the colon cancer-associated Ps,
CC by inserting the nucleic acids into a host cell and culturing the cell
CC to express the proteins. N and P can be used in the prevention, diagnosis
CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC and AAG77789 represent sequences used in the exemplification of the
CC present invention.
CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were
CC missing at time of publication, meaning no sequences are present for
CC SEQ ID NO:1027 to 1052, 7921 and 7922.

XX Sequence 417 BP; 118 A; 61 C; 65 G; 172 T; 1 other;

Query Match

Best Local Similarity 1.9%; Score 21; DB 22; Length 117;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 459 agtttcttaataccaagaagg 475
|||||

DB 149 agtttcttaataccaagaagg 169

RESULT 17

AAV55038
ID AAV55038 standard; cDNA: 5232 BP.

AC AAV55038;

DT 13-NOV-1998 (first entry)

DE Human XIAP coding sequence.

KW Inhibitor of apoptosis protein; apoptosis enhancer; NAIP polypeptide;
proliferative disease; IAP; therapy; cancer; human; XIAP protein; ss.

OS Homo sapiens.

FH Key Location/Qualifiers

FT CDS 34..1527

FT /*tag= a

FT /product= XIAP

PF W09835693-A2.

PD 20-AUG-1998.

PF 13-FEB-1998; 98WO-1B00781.

PR 13-FEB-1997; 97US-0800929.

PA (UYOT-) UNIV OTTAWA.

PI Baird S, Korneluk R, Liston P, Mackenzie AE, Pratt C;

PI Tsang B;

DR WPI: 1998-467164/40.

DR P-PSDB; AAW69294.

PT Inducing apoptosis in proliferative mammalian cells with inhibitor
of IAP or NAIP polypeptide - also methods for prognosis based on
presence of IAP and NAIP, specifically applied to cancers involving
p53 mutations

PS Claim 13; Fig 1; 147pp; English.

This sequence encodes the human XIAP protein, which is a inhibitor of
apoptosis protein (IAP), and can be used in the method of the invention.
The method is for enhancing apoptosis in cells from a mammal with
CC proliferative disease by treatment with a compound that inhibits
CC biological activity of an IAP or NAIP polypeptide. The inhibitory
CC compounds are used to treat proliferative diseases. Specially cancers of
CC ovary, breast, pancreas, lymph nodes, skin, blood, lung, brain, kidney,
CC liver, nasopharynx, thyroid, central nervous system, prostate, colon,
CC rectum, cervix or endometrium, particularly to increase their sensitivity
CC to chemotherapeutic agents. High levels of the IAP or NAIP proteins are
CC detected in many cancers and are associated with poor prognosis.
CC resistance to chemotherapeutic agents and mutations in p53 (it is
CC suggested that wild-type p53 suppresses transcription of the IAP or NAIP
CC genes). Transgenic animals are used for testing the effects of antisense
CC oligonucleotides and for screening for the inhibitors.

SQ Sequence 5232 BP; 1579 A; 861 C; 1062 G; 1728 T; 2 other;

Query Match

Best Local Similarity 1.9%; Score 21; DB 19; Length 5232;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 459 agtttctaatccaagaag 479

DB 2498 agtttctaatccaagaag 2518

RESULT 18

AAC31359

ID AAC31359 standard; cDNA: 237 BP.

AC AAC31359;

DT 06-OCT-2000 (first entry)

DE Human secreted protein 5' EST, SEQ ID NO: 35434.

KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
gene therapy; chromosome mapping; ss.

OS Homo sapiens.

FN EP1033401-A2.

PD 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

PA (CEST) GENSET.

PI Dunas Milne Edwards J, Duclert A, Giordano J;

DR WPI: 2000-500381/45.

New nucleic acid that is a 5' expressed sequence tag (5' EST) for
obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
diagnostic, forensic, gene therapy and chromosome mapping procedures -

PS Claim 1; SEQ ID 35434; 71pp + CD-ROM; English.

The present sequence is one of a large number of 5' ESTs derived from
mRNAs encoding secreted proteins. No ORF has yet been conclusively
identified within the present sequence. The 5' ESTs were prepared from
total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
sequences usually correspond mainly to the 3' untranslated region (UTR)
of the mRNA because they are often obtained from oligo-dT primed cDNA
libraries. Such ESTs are not well suited for isolating cDNA sequences
derived from the 5' ends of mRNAs and even in those cases where longer
cDNA sequences have been obtained, the full 5' UTR is rarely included.
5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
in diagnostic, forensic, gene therapy and chromosome mapping procedures.
They are used to obtain upstream regulatory sequences and to design
expression and secretion vectors.

SQ Sequence 237 BP; 59 A; 72 C; 65 G; 37 T; 4 other;

Query Match

Best Local Similarity 1.9%; Score 20; DB 21; Length 237;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 417 cacagaagaccagtgatc 436

DB 125 cacagaagaccagtgatc 144

RESULT 19

AAC34438/C

ID AAC34438 standard; DNA: 577 BP.

AC AAC34438;

DT 17-OCT-2000 (first entry)

DE Arabidopsis thaliana DNA fragment SEQ ID NO: 6656.

Hybridisation assay; genetic mapping; gene expression control;
protein identification; signal transduction pathway;

metabolic pathway; promoter; termination sequence; ss.
Arabidopsis thaliana.
EPI033405-A2.
06-SEP-2000.
25-FEB-2000; 2000EP-0301439.
25-FEB-1999; 990S-0121825.
05-MAR-1999; 990S-0121180.
09-MAR-1999; 990S-0123548.
23-MAR-1999; 990S-0125788.
25-MAR-1999; 990S-0126264.
29-MAR-1999; 990S-0126785.
01-APR-1999; 990S-0127462.
06-APR-1999; 990S-0128234.
08-APR-1999; 990S-0128714.
16-APR-1999; 990S-0129845.
19-APR-1999; 990S-0130077.
21-APR-1999; 990S-0130449.
23-APR-1999; 990S-0130510.
28-APR-1999; 990S-0130891.
30-APR-1999; 990S-0131449.
30-APR-1999; 990S-0132048.
04-MAY-1999; 990S-0132484.
05-MAY-1999; 990S-0132485.
06-MAY-1999; 990S-0132486.
06-MAY-1999; 990S-0132487.
07-MAY-1999; 990S-0132863.
11-MAY-1999; 990S-0134256.
14-MAY-1999; 990S-0134218.
14-MAY-1999; 990S-0134219.
14-MAY-1999; 990S-0134221.
14-MAY-1999; 990S-0134370.
18-MAY-1999; 990S-0134768.
19-MAY-1999; 990S-0134941.
20-MAY-1999; 990S-0135124.
21-MAY-1999; 990S-0135353.
24-MAY-1999; 990S-0135629.
25-MAY-1999; 990S-0136021.
27-MAY-1999; 990S-0136392.
28-MAY-1999; 990S-0136782.
01-JUN-1999; 990S-0137222.
03-JUN-1999; 990S-0137528.
04-JUN-1999; 990S-0137502.
07-JUN-1999; 990S-0137724.
08-JUN-1999; 990S-0138094.
10-JUN-1999; 990S-0138540.
10-JUN-1999; 990S-0138847.
14-JUN-1999; 990S-0139119.
16-JUN-1999; 990S-0139452.
16-JUN-1999; 990S-0139453.
18-JUN-1999; 990S-0139459.
18-JUN-1999; 990S-0139460.
18-JUN-1999; 990S-0139461.
18-JUN-1999; 990S-0139462.
18-JUN-1999; 990S-0139463.
18-JUN-1999; 990S-0139450.
18-JUN-1999; 990S-0139750.
21-JUN-1999; 990S-0139817.
22-JUN-1999; 990S-0139899.
23-JUN-1999; 990S-0140353.
23-JUN-1999; 990S-0140354.
24-JUN-1999; 990S-0140695.
28-JUN-1999; 990S-0140823.
29-JUN-1999; 990S-0140991.
30-JUL-1999; 990S-0141287.
01-JUL-1999; 990S-0141842.
01-JUL-1999; 990S-0142154.
02-JUL-1999; 990S-0142055.
06-JUL-1999; 990S-0142350.
08-JUL-1999; 990S-0142803.
09-JUL-1999; 990S-0142520.
12-JUL-1999; 990S-0142577.
13-JUL-1999; 990S-0143542.
14-JUL-1999; 990S-0143624.
15-JUL-1999; 990S-0144005.
16-JUL-1999; 990S-0144085.
16-JUL-1999; 990S-0144086.
19-JUL-1999; 990S-0144325.
19-JUL-1999; 990S-0144331.
19-JUL-1999; 990S-0144332.
19-JUL-1999; 990S-0144333.
19-JUL-1999; 990S-0144334.
19-JUL-1999; 990S-0144335.
20-JUL-1999; 990S-0144352.
20-JUL-1999; 990S-0144632.
20-JUL-1999; 990S-0144884.
21-JUL-1999; 990S-0144814.
21-JUL-1999; 990S-0145086.
21-JUL-1999; 990S-0145088.
22-JUL-1999; 990S-0145085.
22-JUL-1999; 990S-0145087.
22-JUL-1999; 990S-0145089.
22-JUL-1999; 990S-0145192.
23-JUL-1999; 990S-0145145.
23-JUL-1999; 990S-0145218.
23-JUL-1999; 990S-0145224.
26-JUL-1999; 990S-0145276.
27-JUL-1999; 990S-0145913.
27-JUL-1999; 990S-0145918.
27-JUL-1999; 990S-0145919.
28-JUL-1999; 990S-0145951.
02-AUG-1999; 990S-0146386.
02-AUG-1999; 990S-0146388.
02-AUG-1999; 990S-0146389.
03-AUG-1999; 990S-0147038.
04-AUG-1999; 990S-0147204.
04-AUG-1999; 990S-0147302.
05-AUG-1999; 990S-0147192.
05-AUG-1999; 990S-0147260.
06-AUG-1999; 990S-0147303.
06-AUG-1999; 990S-0147416.
09-AUG-1999; 990S-0147493.
09-AUG-1999; 990S-0147935.
10-AUG-1999; 990S-0148171.
11-AUG-1999; 990S-0148319.
12-AUG-1999; 990S-0148341.
13-AUG-1999; 990S-0148565.
13-AUG-1999; 990S-0148684.
16-AUG-1999; 990S-0149368.
17-AUG-1999; 990S-0149175.
18-AUG-1999; 990S-0149426.
20-AUG-1999; 990S-0149722.
20-AUG-1999; 990S-0149723.
23-AUG-1999; 990S-0149902.
23-AUG-1999; 990S-0149930.
23-AUG-1999; 990S-0150560.
26-AUG-1999; 990S-0150884.
27-AUG-1999; 990S-0151065.
27-AUG-1999; 990S-0151086.
27-AUG-1999; 990S-0151080.
30-AUG-1999; 990S-0151303.
31-AUG-1999; 990S-0151438.
01-SEP-1999; 990S-0151930.
07-SEP-1999; 990S-0152363.

PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0158293.
PR 13-OCT-1999; 99US-0158294.
PR 13-OCT-1999; 99US-0158295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 18-OCT-1999; 99US-0155638.
PR 18-OCT-1999; 99US-0155854.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 26-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161922.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 1.9%; Score 20; DB 21; Length 577;
Best Local Similarity 100.0%; Pred. No. 4.8;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 912 attcactcttgattcttc 931
|||||
Db 224 ATTCACTCTTGATTCTTC 205

RESULT 20
AAC44257/c
ID AAC44257 standard; DNA: 960 BP.
XX AAC44257;
XX
DT 18-OCT-2000 (first entry)
XX
XX Arabidopsis thaliana DNA fragment SEQ ID NO: 42196.
XX
XX Hybridisation assay; genetic mapping; gene expression control;
KM protein identification; signal transduction pathway;
KM metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
XX EP1033405-A2.
XX
PD 06-SEP-2000.

XX
PF 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123160.
PR 05-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130445.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130851.
PR 28-APR-1999; 99US-0131445.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 14-JUN-1999; 99US-0138847.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140655.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140951.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.


```

PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142877.
PR 13-JUL-1999; 99US-0143342.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 19-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145092.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 28-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 03-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.

```

```

PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

```

Query Match 1.9%; Score 20; DB 21; Length 560;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 512 attaccctctgattcttc 931
 |||||||||
 Db 224 ATTACCTCTGATTCTTC 205

RESULT 21
 AAZ76456/c
 ID AAZ76456 standard; DNA; 19 BP.

AAZ76456;
 10-SEP-2001 (first entry)

DE Human diallelic marker downstream amplification primer SEQ ID NO:10812.
 XX
 OS Homo sapiens.
 XX
 PN WO9554500-A2.
 XX
 PD 28-OCT-1999.
 XX
 PF 21-APR-1999; 99MO-1B00822.
 XX
 XX 21-APR-1998; 98US-0082614.
 XX 23-NOV-1998; 98US-0109732.

```

XX PA (GEST ) GENSET.
XX PI Cohen D, Blumenfeld M, Chumakov I;
XX PS WPI: 2000-013267/01.
DR PT Novel biallelic markers used to construct a high density disequilibrium
XX PS map of the human genome
XX PS Claim 9; Page 2535; 2745pp; English.
CC AA265654 to AA269578 represent human biallelic markers from the present
CC invention, which contain a polymorphic base at position 24 of their
CC nucleotide sequences. AA269579 to AA277440 represent amplification
CC primers for the biallelic markers. The biallelic markers of the
CC invention have a variety of uses: they can be used for high density
CC mapping of the human genome, and in complex association studies and
CC haplotyping studies which are useful in determining the genetic basis
CC for disease states. Compositions and methods of the invention can also
CC be useful for the identification of the targets for the development of
CC pharmaceutical agents and diagnostic methods, as well as the
CC characterisation of the differential efficacious responses to and side
CC effects from pharmaceutical agents acting on a disease as well as other
CC treatment.
CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
CC and 3367, are not actually given a sequence in the Sequence Listing
CC from the present invention.
XX SQ Sequence 19 BP; 7 A; 5 C; 2 G; 5 T; 0 other;

Query Match 1.8%; Score 19; DB 21; Length 19;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 caggaatgctgcgttaa 225
DB 19 CAGCAATGCTGCTTTAA 1

RESULT 22
AAH69026
ID AAH69026 standard; cDNA; 338 BP.
XX
AC AAH69026;
XX
DT 19-SEP-2001 (first entry)
XX
DE Human cervical cancer marker nucleic acid 300.
XX
KM Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200142467-A2.
XX
PD 14-JUN-2001.
XX
PE 08-DEC-2000; 2000MO-US33312.
XX
PR 08-DEC-1999; 990S-0169681.
PR 21-DEC-1999; 990S-0171350.
PR 14-MAR-2000; 2000US-0189315.
PR 12-MAY-2000; 2000US-0203791.
PR 09-JUN-2000; 2000US-0210600.
PR 21-JUL-2000; 2000US-0220114.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Deeds J, Berger A, Zhao X;
XX
DR WPI: 2001-375006/39.

```

```

XX PA New isolated nucleic acid for diagnosing and treating cervical cancer
XX PI and for assessing and detecting compounds for treating the cancer
XX PS Claim 1; Page 156; 1051pp; English.
DR PT The invention relates to novel genes (AAH68727-AAH73163) associated with
XX PS cervical cancer with cytostatic activity. The nucleic acids and encoded
XX PS polypeptides are useful: to assess if a patient is afflicted with
XX PS cervical cancer or has a pre-malignant condition; to monitor the
XX PS progression of cervical cancer or a premalignant condition in a patient;
XX PS and to select and/or assess the efficacy of a compound or therapy for
XX PS inhibiting cervical cancer in a patient. The nucleic acids may also be
XX PS useful for gene therapy.
XX SQ Sequence 338 BP; 89 A; 79 C; 73 G; 97 T; 0 other;

Query Match 1.8%; Score 19; DB 22; Length 338;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 319 acgcaaacctacccttc 337
DB 218 acgcaaacctacccttc 236

RESULT 23
AAH71896
ID AAH71896 standard; cDNA; 351 BP.
XX
AC AAH71896;
XX
DT 19-SEP-2001 (first entry)
XX
DE Human cervical cancer marker nucleic acid 3170.
XX
KM Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200142467-A2.
XX
PD 14-JUN-2001.
XX
PE 08-DEC-2000; 2000MO-US33312.
XX
PR 08-DEC-1999; 990S-0169681.
PR 21-DEC-1999; 990S-0171350.
PR 14-MAR-2000; 2000US-0189315.
PR 12-MAY-2000; 2000US-0203791.
PR 09-JUN-2000; 2000US-0210600.
PR 21-JUL-2000; 2000US-0220114.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Deeds J, Berger A, Zhao X;
XX
DR WPI: 2001-375006/39.
XX
PE New isolated nucleic acid for diagnosing and treating cervical cancer
XX PT and for assessing and detecting compounds for treating the cancer
XX PS Claim 1; Page 626; 1051pp; English.
XX
PA The invention relates to novel genes (AAH68727-AAH73163) associated with
XX PS cervical cancer with cytostatic activity. The nucleic acids and encoded
XX PS polypeptides are useful: to assess if a patient is afflicted with
XX PS cervical cancer or has a pre-malignant condition; to monitor the
XX PS progression of cervical cancer or a premalignant condition in a patient;
XX PS and to select and/or assess the efficacy of a compound or therapy for
XX PS inhibiting cervical cancer in a patient. The nucleic acids may also be
XX PS useful for gene therapy.

```

XX
SQ Sequence 351 BP; 98 A; 78 C; 73 G; 102 T; 0 other;

Query Match
Best Local Similarity 100.0%; Score 19; DB 22; Length 351;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 319 acagcaaacctactcttc 337
 |||||
DB 208 acagcaaacctactcttc 226

RESULT 24

AAH70689
ID AAH70689 standard; cDNA; 494 BP.

AC AAH70689;

DT 19-SEP-2001 (first entry)

DE Human cervical cancer marker nucleic acid 1963.

KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

OS Homo sapiens.

XX WO200142467-A2.

XX PN 14-JUN-2001.

XX PD 08-DEC-2000; 2000MO-US33312.

XX PF 08-DEC-1999; 99US-0169681.

XX PR 21-DEC-1999; 99US-0171350.

XX PR 14-MAR-2000; 2000US-0189315.

XX PR 12-MAY-2000; 2000US-0203791.

XX PR 09-JUN-2000; 2000US-0210600.

XX PR 21-JUL-2000; 2000US-0220114.

XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX PI Schlegel R, Deeds J, Berger A, Zhao X;

XX DR WPI; 2001-375006/39.

XX PS Claim 1; Page 420-421; 1051pp; English.

XX The invention relates to novel genes (AAH68727-AAH73383) associated with
CC cervical cancer with cytostatic activity. The nucleic acids and encoded
CC polypeptides are useful: to assess if a patient is afflicted with
CC cervical cancer or has a pre-malignant condition; to monitor the
CC progression of cervical cancer or a premalignant condition in a patient;
CC and to select and/or assess the efficacy of a compound or therapy for
CC inhibiting cervical cancer in a patient. The nucleic acids may also be
CC useful for gene therapy.

XX SO Sequence 494 BP; 128 A; 106 C; 114 G; 146 T; 0 other;

Query Match
Best Local Similarity 100.0%; Score 19; DB 22; Length 494;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 319 acagcaaacctactcttc 337
 |||||
DB 220 acagcaaacctactcttc 238

RESULT 25

AAH72662/c
ID AAH72662 standard; cDNA; 494 BP.

AC AAH72662;

DT 19-SEP-2001 (first entry)

DE Human cervical cancer marker nucleic acid 3936.

KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

OS Homo sapiens.

XX WO200142467-A2.

XX PN 14-JUN-2001.

XX PD 08-DEC-2000; 2000MO-US33312.

XX PF 08-DEC-1999; 99US-0169681.

XX PR 21-DEC-1999; 99US-0171350.

XX PR 14-MAR-2000; 2000US-0189315.

XX PR 12-MAY-2000; 2000US-0203791.

XX PR 09-JUN-2000; 2000US-0210600.

XX PR 21-JUL-2000; 2000US-0220114.

XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX PI Schlegel R, Deeds J, Berger A, Zhao X;

XX DR WPI; 2001-375006/39.

XX PS Claim 1; Page 787; 1051pp; English.

XX The invention relates to novel genes (AAH68727-AAH73383) associated with
CC cervical cancer with cytostatic activity. The nucleic acids and encoded
CC polypeptides are useful: to assess if a patient is afflicted with
CC cervical cancer or has a pre-malignant condition; to monitor the
CC progression of cervical cancer or a premalignant condition in a patient;
CC and to select and/or assess the efficacy of a compound or therapy for
CC inhibiting cervical cancer in a patient. The nucleic acids may also be
CC useful for gene therapy.

XX SO Sequence 494 BP; 147 A; 101 C; 101 G; 143 T; 2 other;

Query Match
Best Local Similarity 100.0%; Score 19; DB 22; Length 494;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 319 acagcaaacctactcttc 337
 |||||
DB 249 ACAGCAAACTACTCTTCC 231

RESULT 26

AAH22252
ID AAH22252 standard; DNA; 861 BP.

AC AAH22252;

DT 18-MAY-1999 (first entry)

DE Human secreted protein gene 42 clone HSNAD72.

KW Human; secreted protein; gene therapy; protein therapy; cancer; weight;

KW tumour; chromosome mapping; forensic; haematological disease; allergy;

KW inflammation; cell proliferation; viral infection; wound healing;

KW modulation; appetite; behaviour; food additive; preservative; ss.

OS Homo sapiens.
 XX
 PN W09903990-A1.
 XX
 PD 28-JAN-1999.
 XX
 PF 15-JUL-1998; 98WO-US14613.
 XX
 PR 18-AUG-1997; 97US-0056361.
 PR 16-JUL-1997; 97US-0052661.
 PR 16-JUL-1997; 97US-0052870.
 PR 16-JUL-1997; 97US-0052871.
 PR 16-JUL-1997; 97US-0052872.
 PR 16-JUL-1997; 97US-0052873.
 PR 16-JUL-1997; 97US-0052874.
 PR 16-JUL-1997; 97US-0052875.
 PR 22-JUL-1997; 97US-0053440.
 PR 22-JUL-1997; 97US-0053441.
 PR 22-JUL-1997; 97US-0053442.
 PR 18-AUG-1997; 97US-0055683.
 PR 18-AUG-1997; 97US-0055724.
 PR 18-AUG-1997; 97US-0055725.
 PR 18-AUG-1997; 97US-0055726.
 PR 18-AUG-1997; 97US-0055946.
 PR 18-AUG-1997; 97US-0055952.
 PR 18-AUG-1997; 97US-0055985.
 PR 18-AUG-1997; 97US-0055989.
 PR 18-AUG-1997; 97US-0056359.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Duan R, Feng P, Ferrie AM, Florence KA, Fouad J;
 PI Greene JM, Hu J, Ni J, Rosen CA, Ruben SM, Young PE;
 PI Yu G;
 DR WPI: 1999-132234/11.
 DR P-PSDB: AA01424.
 PT New nucleic acids encoding secreted human proteins - potentially
 PT useful for treating and diagnosing diseases and identifying specific
 PT binding agents
 XX
 PS Claim 4; Page 190-191; 251pp; English.
 XX
 CC The invention relates to nucleic acid sequences (AAx22211 to AAx22282)
 CC encoding human secreted proteins (AA01383 to AA01454). The secreted
 CC protein gene sequences are deposited with the ATCC under deposit number
 CC ATCC 209138, 209139 or 209141. Host cells containing vectors comprising
 CC the nucleic acid sequences are used for the recombinant expression of
 CC the secreted proteins. The polynucleotide and amino acid sequences are
 CC useful for preventing, treating or ameliorating medical conditions e.g.
 CC by protein or gene therapy. Pathological conditions can be also diagnosed
 CC by determining the amount of the new polypeptides in a sample or by the
 CC presence of mutations in the new polynucleotides. The nucleic acid
 CC sequences, or its fragments, are useful for chromosome identification
 CC and mapping; as antisense and triplex-forming therapeutics; in gene
 CC therapy; for (forensic) identification of individuals; as molecular
 CC weight markers; to identify related sequences or specific mRNA; in
 CC preparation of oligomers and to raise anti-DNA antibodies. Antibodies are
 CC useful as immunoassay reagents (including for in vivo imaging) and
 CC therapeutically to inhibit or activate particular polypeptides. A very
 CC wide range of disorders may be treated with the polynucleotide and
 CC polypeptide sequences, e.g. autoimmune or haematological diseases,
 CC allergy, inflammation, cancer or other forms of cell proliferation, viral
 CC or other infections. The sequences may also be useful in wound healing,
 CC to modulate differentiation of embryonic stem cells, to modulate weight,
 CC appetite, behaviour etc. and as food additive or preservative. The
 CC present sequence represents a gene encoding a human secreted protein
 CC (see descriptor line for gene number and clone identification).
 XX
 SQ Sequence 861 BP; 222 A; 226 C; 164 G; 245 T; 4 other;

Query Match 1.8%; Score 19; DB 20; Length 861;
 Best Local Similarity 100.0%; Pred. No. 15;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 730 agcccttgcatttcctt 748
 11111111111111111111
 Db 357 agcccttgcatttcctt 375
 RESULT 27
 AA071405
 ID AA071405 standard; DNA: 1864 BP.
 XX
 AC AA071405;
 XX
 DT 18-APR-1991 (first entry)
 XX
 DE Sequence of ANS-1 which increases transformation efficiency.
 XX
 KM Enzyme: fungal expression vector; Aspergillus expression vector;
 KM Trichoderma; ds.
 XX
 OS Nucor miehei.
 XX
 PN EP215594-A.
 XX
 PD 25-MAR-1987.
 XX
 PF 27-AUG-1986; 86EP-0306624.
 XX
 PR 07-JUL-1986; 86US-0882224.
 PR 29-AUG-1985; 85US-0771374.
 XX
 PA (GENE-) GENENCOR INC.
 XX
 PI Cullen D, Gray GL, Hayenga KJ, Lawlis VB;
 PI
 DR WPI: 1987-095049/14.
 XX
 PT New DNA sequences for expressing polypeptide in filamentous fungi
 PT - with secretion of prod. from the cells, and new vectors and
 PT transformed fungi
 PT
 PS * Example: Fig 13; 45pp; English.
 XX
 CC A DNA sequence coding for a heterologous polypeptide which can be
 CC expressed in and secreted from filamentous fungi is claimed. Pref.
 CC the DNA sequence codes for bovine preprothymosin, H. miehei
 CC preprocarboxyl protease or A. niger preproglucosylase. Also new
 CC are vectors consisting of the DNA sequence plus an operably-linked
 CC signal sequence. The vectors may also include a sequence which
 CC increases transformation efficiency, e.g. ANS-1.
 XX
 SQ Sequence 1864 BP; 786 A; 210 C; 44 G; 732 T; 92 other;
 Query Match 1.8%; Score 19; DB 8; Length 1864;
 Best Local Similarity 100.0%; Pred. No. 15;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 44 ttattttaaatttaacta 62
 11111111111111111111
 Db 1161 ttattttaaatttaacta 1179
 RESULT 28
 AA078892
 ID AA078892 standard; DNA: 1864 BP.
 XX
 AC AA078892;
 XX
 DT 17-DEC-1995 (first entry)
 XX

DE Aspergillus nidulans ANS-1 partial sequence.
XX Vector: transformation; protein secretion; ds.
KM Aspergillus nidulans.
OS EP625577-A1.
XX 23-NOV-1994.
PD 27-AUG-1986; 86EP-0201751.
XX 29-AUG-1985; 85US-0771374.
PR 07-JUL-1986; 86US-0882224.
XX (GENEV) GENENCOR INT INC.
PA Berka RM, Cullen D, Gray GL, Hayenga KJ, Lawlis VB;
PI WPI: 1994-359750/45.
DR Vectors and DNA for expressing polypeptide(s) in filamentous fungi
XX - include secretory signal sequences that are native or foreign to
PT heterologous polypeptide(s), such as chymosin or glucoamylase.
PS Disclosure: Fig 13A-13B, 50pp; English.
XX The sequence represents the A. nidulans ANS-1 sequence which is
CC included in the construction of transformation vectors for
CC recombinant protein expression and secretion from a filamentous
CC fungus host. The sequence increases the transformation efficiency
CC of the vector. This illustrates the main claims of the patent,
CC which provide a vector containing (i) DNA encoding a heterologous
CC polypeptide (chymosin, prochymosin, preprochymosin, Aspergillus
CC niger glucoamylase, Humicola grisea glucoamylase or M. miehei
CC carboxyl protease) and (ii) a secretory signal peptide, and a
CC filamentous fungus (Aspergillus, Trichoderma, Neurospora, and
CC Podosporea, Endothia, Mucor, Cochliobolus or Pyricularia, especially A.
CC nidulans, A. awamori or T. reesei) transformed with the vector for
CC recombinant protein (enzyme) production.
XX Sequence 1864 BP; 819 A; 193 C; 120 G; 732 T; 0 other;
SQ

Query Match 1.8%; Score 19; DB 15; Length 1864;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 44 ttatttaataataacta 62
DB 1161 ttatttaataataacta 1179
|||||

RESULT 29
AAFG2529/C
ID AAF92529 standard; DNA: 2438 BP.
XX AAF92529;
AC
XX 16-MAY-2001 (first entry)
DE Rat T2R02 nucleotide sequence SEQ ID NO:80.
XX
KM Human: rat: mouse: T2R: taste receptor: G-protein coupled receptor;
KM taste transduction G-protein coupled receptor: identification; tongue;
KM taste sensory neuron; taste cell; taste modulator; food;
KM taste signalling pathway; ds.
XX
XX Rattus sp.
XX WO200118050-A2.
XX 15-MAR-2001.
PD

XX 08-SEP-2000; 2000WO-US24821.
XX 10-SEP-1999; 99US-0393634.
PR 22-FEB-2000; 2000US-0510332.
XX (REGC) UNIV CALIFORNIA.
PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX Zuker CS, Adler JE, Ryba N, Mueller K, Hoon M;
PI WPI: 2001-211396/21.
DR P-PSDB: AAB87782.
XX Nucleic acids encoding the T2R family of G-protein coupled taste
PT receptors, useful for identifying taste modulators that can be used in
PT food and pharmaceutical industries to customize taste, for e.g. to
PT decrease the bitter taste of food.
PS Claim 51; Page 190-191; 249pp; English.
XX AAF92502 to AAF92572 represent nucleic acids which encode taste
CC transduction G-protein coupled receptors designated T2R proteins
CC AAB87731 to AAB87824 represent T2R proteins, and AAB87825 to AAB87830
CC represent T2R family consensus sequences from the present invention.
CC The T2R proteins are taste modulators. The nucleic acids are useful as
CC probes for the identification of taste cells, as the nucleic acids are
CC specifically expressed in taste cells. They also serve as tools for the
CC generation of taste topographic maps that elucidate the relationship
CC between the taste cells of the tongue and taste sensory neurons leading
CC to taste centres in the brain. The taste modulators are useful for
CC pharmacological and genetic modulation of taste signalling pathways.
CC Modulatory compounds comprising T2R proteins can therefore be used in
CC food and pharmaceutical industries to customise taste, for e.g. to
CC decrease the bitter taste of food or drugs.
XX Sequence 2438 BP; 714 A; 459 C; 470 G; 795 T; 0 other;
SQ

Query Match 1.8%; Score 19; DB 22; Length 2438;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 899 tcttgcttttaattca 517
DB 215 tcttgcttttTAATTCA 197
|||||

RESULT 30
AAI59313/C
ID AAI59313 standard; cDNA: 2706 BP.
XX AAI59313;
AC
XX 22-OCT-2001 (first entry)
DE Human polynucleotide SEQ ID NO 1516.
XX
XX Human: noctropic; immunosuppressant; cytostatic; gene therapy; cancer;
KM peripheral nervous system; neuropathy; central nervous system; CNS;
KM Alzheimer's; Parkinson's disease; Huntington's disease; hemostatic;
KM anyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KM chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KM leukaemia; ss.
XX Homo sapiens.
XX WO200153312-A1.
XX 26-JUL-2001.
XX 26-DEC-2000; 2000WO-US34263.
PD

PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
XX (HXSE-) HXSEQ INC.
XX
XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI: 2001-442253/47.
DR P-PSDB; AAM40157.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
PS Claim 1; SEQ ID NO 1516; 10078pp; English.
XX
CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: immune system suppression,
CC activation/inhibition activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
SQ Sequence 2706 BP; 788 A; 559 C; 604 G; 755 T; 0 other;

Query Match 1.8%; Score 19; DB 22; Length 2706;
Best Local Similarity 100.0%; Pred. NO. 16;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 729 gagcctctgcatcttcct 747
|||||
DB 1614 GAGCCTCTGCAATTTCCT 1596

RESULT 31
AA13252/c
ID AAX13252 standard; DNA; 4605 BP.
XX
AC AAX13252;
XX
DT 19-MAR-1999 (first entry)
XX
DE Enterococcus faecalis genome contig SEQ ID NO:315.
XX
KM Enterococcus faecalis; contig; detection: Enterococcal infection;
KM vaccine; attenuation; computer readable medium; ds.
XX
OS Enterococcus faecalis.
XX
PN WO9850555-A2.
XX
PD 12-NOV-1998.
XX
PF 04-MAY-1998; 98WO-US08985.
XX
DR

PR 14-NOV-1997; 97US-6066005.
PR 06-MAY-1997; 97US-0044031.
PR 16-MAY-1997; 97US-0046655.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Barash SC, Dillon PJ, Kunsch CA;
XX
DR WPI: 1999-045171/04.
XX
XX
PT New isolated Enterococcus faecalis polynucleotides and polypeptides
PT - used to develop products for the detection of Enterococcus and for
PI use in vaccines for prevention or attenuation of Enterococcus
PI infection.
XX
PS Claim 1; Page 1397-1399; 2084pp; English.
XX
CC A computer readable medium has been developed which has recorded on it
CC 982 nucleotide sequences isolated from the Enterococcus faecalis genome.
CC AAX12538 to AAX13919 represent these nucleotide sequences which are
CC primary nucleotide sequences, also known as contigs. The computer-based
CC system can identify fragments of the Enterococcus faecalis genome with
CC commercial importance. The products can be used to detect the presence
CC of Enterococcus faecalis in samples. They can also be used for
CC diagnosing Enterococcal infection in an animal and monitoring
CC progression of disease, and for identifying agents which can be used to
CC modulate the growth or pathogenicity of Enterococcus faecalis, or
CC another related organism, in vivo or in vitro. In particular the
CC polypeptides encoded by the Enterococcus faecalis nucleotide sequences
CC can be used in vaccines to prevent or attenuate an Enterococcal
CC infection.
XX
SQ Sequence 4605 BP; 1371 A; 1015 C; 707 G; 1501 T; 7 other;

Query Match 1.8%; Score 19; DB 20; Length 4605;
Best Local Similarity 100.0%; Pred. NO. 16;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 752 accattttaactgattca 770
|||||
DB 3492 ACCATTITTTACTGATTCA 3474

RESULT 32
AAH33754
ID AAH33754 standard; cDNA; 291 BP.
XX
AC AAH33754;
XX
DT 03-SEP-2001 (first entry)
XX
DE Human colon cancer antigen encoding cDNA SEQ ID NO:810.
XX
DE Human colon cancer; colon cancer antigen; diagnosis; detection;
XX
KM Human; colon cancer; colon cancer antigen; diagnosis; detection;
KM colorectal carcinoma; ss.
XX
XX Homo sapiens.
XX
OS
XX
PN WO200122520-A2.
XX
PD 05-APR-2001.
XX
PF 28-SEP-2000; 2000WO-US26524.
XX
PR 29-SEP-1999; 99US-0157137.
PR 03-NOV-1995; 99US-0163280.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Birse CE, Rosen CA;
XX
DR WPI: 2001-235357/24.

DR P-PSDB: AAC74323.
 XX
 PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
 XX useful for preventing, diagnosing and/or treating colorectal cancers -
 XX
 PS Claim 1, Page 2772; 9803pp: English.
 XX
 CC AAH37943 to AAH37195 and AAC73514 to AAC77788 represent human colon
 CC cancer-associated nucleic acid molecules (N) and proteins (P), where
 CC the proteins are collectively known as colon cancer antigens. The colon
 CC cancer antigens have cytostatic activity and can be used in gene
 CC therapy and vaccine production. N and P may be used in the prevention,
 CC diagnosis and treatment of diseases associated with inappropriate P
 CC expression. For example, N and P may be used to treat disorders
 CC associated with decreased expression by rectifying mutations or deletions
 CC in a patient's genome that affect the activity of P by expressing
 CC inactive proteins or to supplement the patient's own production of P.
 CC Additionally, N may be used to produce the colon cancer-associated P,
 CC by inserting the nucleic acids into a host cell and culturing the cell
 CC to express the proteins. N and P can be used in the prevention,
 CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
 CC and AAC77789 represent sequences used in the exemplification of the
 CC present invention.
 CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were
 CC missing at time of publication, meaning no sequences are present for
 CC SEQ ID NO:1027 to 1052, 7921 and 7922.
 CC
 XX
 SQ Sequence 291 BP; 86 A; 47 C; 60 G; 96 T; 2 other;

Query Match 1.7%; Score 18; DB 22; Length 291;
 Best Local Similarity 100.0%; Pred. NO. 47;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 255 gaaacacacacataat 272
 ||||||||||||||||
 DB 142 gaaacacacacataat 159

RESULT 33
 AAX02970
 ID AAX02970 standard; DNA; 1361 BP.
 XX
 AC AAX02970;
 XX
 DT 22-JUN-1999 (first entry)
 XX
 DE Human IL-1ra BAC contiguous DNA sequence 15.
 XX
 KM Tango-77; human; IL-1ra; cytokine superfamily; inflammation; inhibition;
 KM interleukin-1 receptor; IL-1R; regulation; asthma; rheumatoid arthritis;
 KM chronic myelogenous leukaemia; psoriasis; inflammatory bowel disease;
 KM growth factors; treatment; IL-1 receptor complex; BAC; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9906426-A1.
 XX
 PD 11-FEB-1999.
 XX
 PE 03-AUG-1998; 98WO-US16102.
 XX
 PR 02-JUL-1998; 98US-0091650.
 PR 04-AUG-1997; 97US-0054646.
 XX
 PA (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.
 XX
 PI Pan Y;
 XX
 DR WPI: 1999-153692/13.
 XX
 PT New isolated nucleic acid encoding the new human cytokine Tango-77 -
 PT used to inhibit inflammation and to screen for specific modulators

XX
 PS Example 5; Figure 3; 226pp: English.
 XX
 CC AAX02957-03048 and AAX22301-X22304 are overlapping BAC genomic
 CC sequences containing alternatively spliced forms of human IL-1ra. Such
 CC fragments are used in the method of the invention which describes the
 CC isolation of a novel human TANGO-77 encoding nucleic acid and protein.
 CC Tango-77 is a member of the cytokine superfamily that is expected to
 CC inhibit inflammation by binding to the interleukin-1 receptor (IL-1R). It
 CC may also bind to a new receptor so could regulate other cellular
 CC processes associated with acute or chronic inflammation, e.g. asthma,
 CC chronic myelogenous leukaemia, rheumatoid arthritis, psoriasis and
 CC inflammatory bowel disease. It may also induce or suppress interleukins,
 CC cytokines and growth factors. Modulators of this protein are used to
 CC treat or prevent conditions associated with abnormal levels of
 CC inflammation, or activity of IL-1 or its receptor complex.
 CC
 XX
 SQ Sequence 1361 BP; 462 A; 226 C; 231 G; 442 T; 0 other;

Query Match 1.7%; Score 18; DB 20; Length 1361;
 Best Local Similarity 100.0%; Pred. NO. 48;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 49 ttaaatataactatttc 66
 ||||||||||||||||
 DB 851 ttaaatataactatttc 868

RESULT 34
 AAC75762
 ID AAC75762 standard; cDNA; 1569 BP.
 XX
 AC AAC75762;
 XX
 DT 08-FEB-2001 (first entry)
 XX
 DE Human OREF1317 polynucleotide sequence SEQ ID NO:2633.
 XX
 KM Human; open reading frame; OREF; detection; cytostatic; hepatotropic;
 KM vulnerable; antiproliferative; antiparkinsonian; neurotrophic; neuroprotective;
 KM anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant
 KM immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
 KM hypotensive; dermatological; immunosuppressive; antiinflammatory;
 KM antiviral; antibacterial; antifungal; antineoplastic; antihypertensive;
 KM antianemic; gene therapy; cancer; proliferative disorder; hypertensive;
 KM neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KM cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KM cholesterol ester storage; systemic lupus erythematosus; infection;
 KM severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KM allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KM bone damage; cartilage damage; antiinflammatory disease; coagulation;
 KM thrombosis; contraceptive; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO20005473-A2.
 XX
 PD 05-OCT-2000.
 XX
 PE 31-MAR-2000; 2000WO-US08621.
 XX
 PR 31-MAR-1999; 99US-0127607.
 PR 02-APR-1999; 99US-0127636.
 PR 03-APR-1999; 99US-0127728.
 PR 30-MAR-2000; 2000US-0540763.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkels RA, Leach M;
 XX
 DR WPI: 2000-602362/57.
 XX
 PT P-PSDB; AAB41553.

```

XX Novel nucleic acids and peptides derived from open reading frame X,
PT useful for treating e.g. cancers, proliferative disorders,
PT neurodegenerative disorders and cardiovascular disease
XX
PS Claim 5; Page 1878-1879; 5507pp; English.
CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43357,
CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
CC sequences have activities such as: cytostatic; hepatotropic; vulnery;
CC antiproliferic; antiparasitoid; nootropic; neuroprotective;
CC osteopathic; anticoagulant; antithrombotic; immunosuppressive;
CC immunostimulant; cardiant; thrombolytic; coagulant; vasotropic;
CC antidiabetic; hypotensive; dermatological; immunosuppressive;
CC antiinflammatory; antibacterial; antiviral; antifungal; antirheumatic;
CC antihypertoid; and antianaemic. The sequences can be used for determining
CC the presence of or predisposition to, or preventing or treating
CC pathological conditions associated with an ORFX-associated disorder. The
CC nucleic acids can be used to express ORFX proteins in gene therapy
CC vectors. The proteins and nucleic acids may be used to treat cancers,
CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
CC graft vs host disease, cardiovascular disease, diabetes mellitus,
CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,
CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
CC nocturnal haemoglobinuria, antiinflammatory disease; to enhance
CC coagulation; to inhibit thrombosis; and as a contraceptive.
XX
SO Sequence 1569 BP; 356 A; 487 C; 358 G; 367 T; 1 other;

Query Match          1.7%; Score 18; DB 21; Length 1569;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 839 acattcaccatgcacacat 856
   |||||||
DQ 540 acattcaccatgcacacat 557

RESULT 35
AAQ22695/c
ID AAQ22695 standard; DNA: 1752 BP.
XX
AC AAQ22695;
XX
DT 24-JUL-1992 (first entry)
XX
DE Sequence encoding mitochondrial NAD(P)+-dependent malate enzyme.
XX
KM Carbon metabolism; pyruvate formation; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT 1..1752
FT CDS /*tag= a
XX
PN DE4028618-A.
XX
PD 12-MAR-1992.
XX
PF 08-SEP-1990; 90DE-4028618.
XX
PR 08-SEP-1990; 90DE-4028618.
PR 19-JUN-1991; 91DE-4120178.
XX
PA (BOEH ) BOEHRINGER INGELHEIM.
XX
PI Dworkin MB, Loeber G, Krystek E, Maurer-Fogy I;
XX
PS WPI; 1992-089407/12.

```

```

DR P-PSDB; AAR21845.
XX
PT Human mitochondrial NAD(P)-dependent malate enzyme - used to
PT study formation of pyruvate from aminoacid(s) in tumour cells
XX
PS Claim 2; Page 12-13; 20pp; German.
CC The inventors claim mitochondrial NAD(P)+-dependent malate enzyme
CC and DNA encoding it. AAR21845 has 5' and 3' non-coding regions. The
CC enzyme catalyses conversion of malate to pyruvate. Both the DNA and
CC the enzyme are useful for studying carbon metabolism in rapidly
CC dividing cells, esp. pyruvate formation from amino acids.
XX
SO Sequence 1752 BP; 562 A; 326 C; 386 G; 478 T; 0 other;

Query Match          1.7%; Score 18; DB 13; Length 1752;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 77 tggaaaaataaacatt 94
   |||||||
DQ 1416 TGGAAAAATATAAcATT 1399

RESULT 36
AAQ33258/c
ID AAQ33258 standard; DNA: 1923 BP.
XX
AC AAQ33258;
XX
DT 31-JUL-1992 (first entry)
XX
DE Mitochondrial NAD(P)+-dependent malate enzyme.
XX
KM C-metabolism; tumour; pyruvate; T-lymphocyte; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT 90..1844 /*tag= a
FT CDS /*tag= b
FT sig-peptide 90..149 /product= malate-enzyme
FT mat-peptide 150..1844 /*tag= c
FT polyA-signal 1905..1910 /*tag= d
FT /*note= "homologous to poly(A) signal AATAAA"
XX
PN WO9204448-A.
XX
PD 15-MAR-1992.
XX
PF 23-AUG-1991; 91WO-EP01602.
XX
PR 19-JUN-1991; 91DE-4120178.
PR 08-SEP-1990; 90DE-4028618.
XX
PA (BOEH ) BOEHRINGER INGELHEIM.
XX
PI Dworkin MB, Loeber G, Krystek E, Maurerfogy I, Frubbeis B;
XX
PS WPI; 1992-114355/14.
XX
DR P-PSDB; AAR23356.
XX
PT New human mitochondrial malate enzyme and DNA encoding it - for
PT studying carbon metabolism in cells, also specific antibodies for
PT purification and assay
XX
PS Claim 1; Page 46 + Fig 3; 60pp; German.

```


CC The sequence may be used to study C-metabolism in rapidly dividing
CC (tumour) cells, esp. pyruvate formation from amino acids
CC (The enzyme was first isolated from the supernatant of mitochondrial
CC preparations from the transformed human T-lymphocyte cell line
CC 1301. Triptic fragments were partially sequenced and used as a
CC basis for the design of oligonucleotides. These were used in PCR
CC for amplification of malate enzyme encoding DNA in a cDNA bank
CC prep'd. from fibrosarcoma H5913. Amplified fragments were subcloned
CC in pUC18, sequenced and used to probe the fibrosarcoma bank.
CC A 1923bp insert was isolated and cloned in Bluescript KS+.
CC The poly(A⁺) tail is not included in this sequence.
XX
SQ Sequence 1923 BP; 598 A; 373 C; 436 G; 516 T; 0 other;

Query Match 1.7%; Score 18; DB 13; Length 1923;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 77 tggaaaaataaacatt 94
|||||
DB 1505 TGGAAAAATATAACATT 1488

RESULT 37

AAFI8038/c
ID AAFI8038 standard; DNA; 2033 BP.

XX AAFI8038;

DT 14-MAR-2001 (first entry)

XX Lung cancer associated polynucleotide sequence SEQ ID 57.

XX Human; lung cancer associated protein; neuroprotective; cytostatic;
XX cardioactive; immunomodulatory; muscular active; vulnerary;
XX gastrointestinal; nephrotropic; antineoplastic; gynecological;
XX antibacterial; diagnosis; neural disorder; immune disorder; reproductive;
XX proliferative disorder; wound healing; infectious disease; ds.

OS Homo sapiens.

XX WO20005180-A2.

XX 21-SEP-2000.

XX 08-MAR-2000; 2000WO-US05918.

XX 12-MAR-1999; 99US-0124270.

XX (HUMA-) HUMAN GENOME SCT INC.
XX (ROSE/) ROSEN C A.

XX Ruben SM;

XX WPI: 2000-587514/55.

XX P-PSDB: AAB58162.

XX Lung cancer associated gene sequences, referred to as lung cancer
XX antigens, useful for treatment, prevention, and diagnosis of disorders
XX such as lung cancer -

XX Claim 1; Page 536-537; 1425bp; English.

XX Polynucleotide sequences AAFI7982 - AAFI8424 encode human lung cancer
XX associated proteins represented in AAB58106 - AAB58548. Lung cancer
XX associated proteins and polynucleotide sequences, their agonists, and
XX antagonists may have neuroprotective; cytostatic; cardioactive;
XX immunomodulatory; muscular active; general; vulnerary; gastrointestinal
XX activity; nephrotropic; antineoplastic; gynecological; or antibacterial
XX protein or polynucleotide sequences. The lung cancer associated
XX polynucleotide sequences may be used for detection of lung cancer,

CC Chromosome identification, as chromosome markers, and for numerous other
CC diagnostic or research purposes. The proteins may be used to treat
CC disorders such as neural, immune, muscular, reproductive,
CC gastrointestinal, pulmonary, cardiovascular, renal, and proliferative
CC disorders. The proteins may also be used in the treatment of wounds and
CC infectious diseases. Polynucleotide sequences AAFI8425 - AAFI8433 and
CC peptide AAB58549 are used in the course of the invention for the
CC identification and characterisation of the polynucleotide and protein
CC sequences.
XX
SQ Sequence 2033 BP; 399 A; 623 C; 628 G; 370 T; 13 other;

Query Match 1.7%; Score 18; DB 21; Length 2033;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 720 ctgactctgagcctctt 737
|||||
DB 1902 CTGACTCTGAGCCTCTT 1885

RESULT 38

AAQI3822/c
ID AAQI3822 standard; cDNA; 3060 BP.

XX AAQI3822;

DT 10-DEC-1991 (first entry)

XX Human GAP b3 gene.

XX Galactoprotein b3; carcinoma; cancer; tumour; ss.

XX Homo sapiens.

XX Key Location/Qualifiers
XX CDS 1..3060
XX FT /*tag= a

XX WO9113983-A.

XX 19-SEP-1991.

XX 08-APR-1991; 91WO-US01606.

XX 12-MAR-1990; 90US-0491910.

XX (BIOM-) BIONEGBRANE INST.

XX Tsuji T, Yamamoto F, Hakomori S;

XX WPI: 1991-295637/40.

XX P-PSDB: AAK1118.

XX DNA sequences encoding galactoprotein b3 - produced using DNA
XX constructs also antibodies to Gap b3 used to detect tumours that
XX result in elevated expression of protein.

XX Claim 1; Fig 6; 46pp; English.

XX The sequence was obt'd. from 3 overlapping clones isolated from
XX a human 124 cell line cDNA library. The DNA can be used to express
XX the Gap b3 protein which is a transformation-dependent cell surface
XX glycoprotein. The protein may be used to produce antibodies and
XX these, or the DNA sequences, can be used to detect and quantify
XX levels of gap b3 protein or mRNA in biological samples. A high
XX level of the protein is indicative of certain cancers.
XX See also AAQI3821-Q13824.

XX Sequence 3060 BP; 643 A; 913 C; 910 G; 594 T; 0 other;

```
Query Match      1.7%: Score 18; DB 12; Length 3060;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 507 ctctgctgctgctctga 524
    |||
Db 1818 CTTCTGCTGCTGCTCTGA 1801

RESULT 39
AAV23920/C
ID AAV23920 standard; DNA: 4636 BP.
XX
AC AAV23920;
XX
DT 31-JUL-1998 (first entry)
XX
DE Human alpha3 integrin coding sequence.
XX
KM Anti-integrin alpha3 antibody; human; anti-tumour agent;
KW chemotherapeutic drug; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 73..3328
FT /*tag= a
XX
PN WO9809651-A1.
XX
PD 12-MAR-1998.
XX
PE 03-SEP-1997; 97WO-JP03085.
XX
PR 03-SEP-1996; 96JP-0250887.
XX
PA (CHUS ) CHUGAI SEIYAKU KK.
XX
PI Hayakawa T, Kawata H, Sekimori Y, Shimizu K, Tomiura E;
XX
DR WPI: 1998-193327/17.
XX
DR P-PSDB; AAM54032.
XX
PT Anti-integrin alpha3 antibody and chemotherapeutic drug - useful in
PT anti-tumour agents and diagnostic reagent compositions
XX
PS Disclosure: Page 68-76; 96pp; Japanese.
XX
CC This sequence encodes the human alpha3 integrin protein. The alpha3
CC integrin sequence is targeted by the anti-integrin alpha3 antibody of the
CC invention. The anti-integrin alpha 3 antibody or its antigen binding
CC fragment are for use as anti-tumour agents, and diagnostic reagent
CC compositions. They can also be used in a chemotherapeutic drug.
XX
SQ Sequence 4636 BP; 961 A; 1452 C; 1336 G; 887 T; 0 other;

Query Match      1.7%: Score 18; DB 19; Length 4636;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 507 ctctgctgctgctctga 524
    |||
Db 1986 CTTCTGCTGCTGCTCTGA 1969

RESULT 40
AAA68247/C
ID AAA68247 standard; DNA: 41708 BP.
XX
AC AAA68247;
XX
DT 27-OCT-2000 (first entry)
```

```
XX
DE Bacteriophage 77 complete genome sequence.
XX
KM Bacteriophage: antimicrobial; genome; identification; antibacterial;
KW bacterial growth inhibition; bacterial infection; ds.
XX
OS Bacteriophage 77.
XX
PN WO200032825-A2.
XX
PD 08-JUN-2000.
XX
PE 03-DEC-1995; 99WO-IB02040.
XX
PR 03-DEC-1996; 98US-0110592.
PR 03-JUN-1995; 99US-0326144.
PR 28-SEP-1995; 99US-0407804.
PR 30-SEP-1995; 99US-0157218.
PR 01-DEC-1995; 99US-0168777.
PR 02-DEC-1995; 99US-0454252.
XX
PA (PHAG-) PHAGETECH INC.
XX
PI Pelletier J, Gros P, Dubow M;
XX
DR WPI: 2000-412361/35.
XX
PT Identifying a bacteriophage coding region for treating bacterial
PT infections comprises identifying a nucleic acid encoding a product that
PT inhibits bacteria when a bacteriophage infects a bacterium
XX
PS Example 3: Page 141-151; 456pp; English.
XX
CC The present invention describes a method for identifying a bacteriophage
CC coding region encoding a product active on an essential bacterial
CC target. The method comprises identifying a nucleic acid sequence encoding
CC a gene product that provides a bacteria-inhibiting function when an
CC uncharacterised bacteriophage infects a pathogenic bacterium. The
CC compound active on a target of a bacteriophage inhibitor protein in a
CC bacteria is used to treat or prevent a bacterial infection in an animal.
CC AAA68243 to AAA69442 and AAB16523 to AAB16954 represent bacteriophage
CC nucleotide and protein sequences which are used in the exemplification of
CC the present invention.
XX
SQ Sequence 41708 BP; 15607 A; 5898 C; 8088 G; 12115 T; 0 other;

Query Match      1.7%: Score 18; DB 21; Length 41708;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 957 ctctgacctgataaa 974
    |||
Db 30283 CTTCTGCTGCTGTAATAA 30266

RESULT 41
AAC86106/C
ID AAC86106 standard; cDNA: 41708 BP.
XX
AC AAC86106;
XX
DT 29-AUG-2001 (first entry)
XX
DE Complete genome of bacteriophage 77.
XX
KM DnaI, S. aureus; inhibitor; bacteriophage 77; ORF 104; phage 77ORF104;
KW screening assay; ss.
XX
OS Bacteriophage 77.
XX
PN WO200146383-A2.
XX
```

PD 28-JUN-2001.
 XX
 PF 21-DEC-2000; 2000MO-US35180.
 XX
 PR 22-DEC-1999; 99US-0470512.
 PR 12-OCT-2000; 2000US-0689952.
 XX
 PA (PHAG-) PHAGETECH INC.
 PA (WILL/) WILLIAMS K M.
 XX
 PI Pelletier J, Gros P, Dubow M;
 PI WPI; 2001-418052/44.
 DR
 PT Novel DnaI polypeptides useful for treating and diagnosing microbial,
 PT preferably bacterial, diseases such as those caused by *Staphylococcus*
 PT *aureus*.
 CC
 PS Disclosure; Fig 2; 107pp; English.
 XX
 CC This sequence represents the genome of Bacteriophage 77. The
 CC growth inhibitory gene product of ORF 104 interacts with DnaI derived
 CC from *S. aureus*, to form the basis of a screening assay. DnaI
 CC polypeptides and polynucleotides are useful for treating microbial,
 CC preferably bacterial, especially *Staphylococcal*, infections. DnaI
 CC polypeptides and polynucleotides are useful for biological, diagnostic,
 CC prophylactic, clinical and therapeutic use, and as components in
 CC databases useful for search analyses as well as in sequence analysis
 CC algorithms.
 CC
 SQ Sequence 41708 BP; 15607 A; 5898 C; 8088 G; 12115 T; 0 other;

Query Match 1.7%; Score 18; DB 22; Length 41708;
 Best Local Similarity 100.0%; Pred. No. 52;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 957 ctccatgacctgaataa 974
 ||||||||||||||||
 Db 30283 CTTGATGACCTGTAATTA 30266

RESULT 42
 AAC31204

ID AAC31204 standard; CDNA; 212 BP.

XX AAC31204;

DT 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 35279.

XX Human; 5' EST: expressed sequence tag; secreted protein; CDNA isolation;
 KM gene therapy; chromosome mapping; ss.
 XX
 OS Homo sapiens.

XX EP1033401-A2.

XX 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

XX (GEST) GENSET.

XX Dumas Milne Edwards J, Duclet A, Giordano J;

XX WPI; 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for

PI diagnostic, forensic, gene therapy and chromosome mapping procedures -
 XX
 PS Claim 1: SEQ ID 35279; 71pp + CD-ROM; English.

CC The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or poly(A⁺) RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences
 CC derived from the 5' ends of mRNAs and even in those cases where longer
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 CC used to obtain full length cDNAs with intact 5' ends and can therefore be
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
 CC They are used to obtain upstream regulatory sequences and to design
 CC expression and secretion vectors.
 CC
 SQ Sequence 212 BP; 64 A; 41 C; 40 G; 66 T; 1 other;

Query Match 1.6%; Score 17; DB 21; Length 212;
 Best Local Similarity 100.0%; Pred. No. 13602;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 967 tgaataatcctcataat 983
 ||||||||||||||||
 Db 43 tgaataatcctcataat 59

RESULT 43
 AAC10699

ID AAC10699 standard; CDNA; 314 BP.

XX AAC10699;

DT 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 14774.

XX Human; 5' EST: expressed sequence tag; secreted protein; CDNA isolation;
 KW gene therapy; chromosome mapping; ss.
 XX
 OS Homo sapiens.

XX EP1033401-A2.

XX 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 99US-0122487.

XX (GEST) GENSET.

XX Dumas Milne Edwards J, Duclet A, Giordano J;

XX WPI; 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
 XX
 PS Claim 1; SEQ ID 14774; 71pp + CD-ROM; English.

CC The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or poly(A⁺) RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences

CC derived from the 5' ends of mRNAs and even in those cases where longer
CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
CC They are used to obtain upstream regulatory sequences and to design
CC expression and secretion vectors.

XX Sequence 314 BP; 102 A; 68 C; 44 G; 100 T; 0 other;

Query Match 1.6%; Score 17; DB 21; Length 314;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 46 atttaaatattacta 62
Db 216 atttaaatattacta 232

RESULT 44

AAH71986 standard; cDNA; 329 BP.

AAH71986;

19-SEP-2001 (first entry)

Human cervical cancer marker nucleic acid 3260.

Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

Homo sapiens.

WC200142467-A2.

14-JUN-2001.

08-DEC-2000; 2000MO-US3312.

08-DEC-1999; 99US-0169681.

21-DEC-1999; 99US-0171350.

14-MAR-2000; 2000US-0189315.

12-MAY-2000; 2000US-0203791.

09-JUN-2000; 2000US-0210600.

21-JUL-2000; 2000US-0220114.

(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

Schlegel R, Deeds J, Berger A, Zhao X;

WPI; 2001-375006/39.

New isolated nucleic acid for diagnosing and treating cervical cancer

and for assessing and detecting compounds for treating the cancer

Claim 1: Page 639; 1051pp; English.

The invention relates to novel genes (AAH68727-AAH73383) associated with

cervical cancer with cytostatic activity. The nucleic acids and encoded

polypeptides are useful: to assess if a patient is afflicted with

cervical cancer or has a pre-malignant condition; to monitor the

progression of cervical cancer or a premalignant condition in a patient;

and to select and/or assess the efficacy of a compound or therapy for

inhibiting cervical cancer in a patient. The nucleic acids may also be

useful for gene therapy.

Sequence 329 BP; 117 A; 55 C; 70 G; 87 T; 0 other;

Query Match 1.6%; Score 17; DB 22; Length 329;

Best Local Similarity 100.0%; Pred. No. 1.5e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 384 tgaagacatttaccac 400
Db 55 tgaagacatttaccac 71

RESULT 45

AAC54948 standard; DNA; 396 BP.

AAC54948;

18-OCT-2000 (first entry)

Arabidopsis thaliana DNA fragment SEQ ID NO: 76643.

Hybridisation assay; genetic mapping; gene expression control;

protein identification; signal transduction pathway;

metabolic pathway; promoter; termination sequence; ss.

Arabidopsis thaliana.

EP103405-A2.

25-FEB-2000; 2000EP-0301439.

25-FEB-1999; 99US-0121825.

05-MAR-1999; 99US-0123180.

23-MAR-1999; 99US-0123548.

25-MAR-1999; 99US-0125788.

29-MAR-1999; 99US-0126264.

01-APR-1999; 99US-0126785.

06-APR-1999; 99US-0127462.

08-APR-1999; 99US-0128234.

16-APR-1999; 99US-0128714.

19-APR-1999; 99US-0129845.

21-APR-1999; 99US-0130077.

23-APR-1999; 99US-0130410.

28-APR-1999; 99US-0130510.

30-APR-1999; 99US-0130891.

04-MAY-1999; 99US-0131449.

05-MAY-1999; 99US-0132048.

06-MAY-1999; 99US-0132485.

07-MAY-1999; 99US-0132486.

11-MAY-1999; 99US-0132863.

14-MAY-1999; 99US-0134256.

14-MAY-1999; 99US-0134218.

14-MAY-1999; 99US-0134219.

14-MAY-1999; 99US-0134221.

14-MAY-1999; 99US-0134370.

14-MAY-1999; 99US-0134968.

Sequence 329 BP; 117 A; 55 C; 70 G; 87 T; 0 other;

Query Match 1.6%; Score 17; DB 22; Length 329;

Best Local Similarity 100.0%; Pred. No. 1.5e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

PR 17-JUN-1999; 99US-0139492.
PR 16-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 25-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 02-JUL-1999; 99US-0142154.
PR 06-JUL-1999; 99US-0142055.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142820.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144684.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145088.
PR 23-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145194.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.

PR 13-AUG-1999; 99US-0148664.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149925.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149920.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158365.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 14-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 18-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161922.
PR 28-OCT-1999; 99US-0161953.
PR 29-OCT-1999; 99US-0162142.

Query Match 1.6%; Score 17; DB 21; Length 396;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 886 aaagaatcaatcctc 502
|||||
Db 321 AAAGCAATATCTCTT 305

Wed May 1 07:51:09 2002

us-09-248-178-63.rng

Search completed: April 30, 2002, 10:55:50
Job time: 11019 sec

XX Claim 3; Page 61; 70pp; English.
 PS This sequence encodes a human breast tumour protein immunogenic fragment
 XX of the invention. The polypeptides or nucleic acids encoding them are
 CC useful in vaccines and pharmaceutical compositions for manufacture of
 CC medicaments for inhibiting the development of breast cancer in a patient.
 CC They can also be used to treat breast cancer. Antibodies against these
 CC polypeptides can be used to detect and monitor progression of breast
 CC cancer in patients. Primers and probes derived from the polynucleotides
 CC encoding the breast proteins are useful for detection of breast cancer.
 CC Peripheral blood cells from a patient incubated in the presence of at
 CC least one polypeptide, such that T cells proliferate, are useful in
 CC manufacture of a medicament for treating breast cancer in a patient.
 CC Antigen presenting cells incubated in the presence of at least one
 CC polypeptide are also useful for treating breast cancer.
 XX
 XX Sequence 1001 BP; 278 A; 159 C; 160 G; 404 T; 0 other;

Query Match 100.0%; Score 1001; DB 20; Length 1001;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 gaatgtaacagatcaagtcagggtatctgtgtatccacacacttgagcattatcagat 60
 DB 1 gaatgtaacagatcaagtcagggtatctgtgtatccacacacttgagcattatcagat 60
 QY 61 tctatgttccaggaacatttccagttatctgttctagcaaggaataataaacttata 120
 DB 61 tctatgttccaggaacatttccagttatctgttctagcaaggaataataaacttata 120
 QY 121 gtaaacatgagccatctacagtcagcaactaaactagattatcttcccttccacttgg 180
 DB 121 gtaaacatgagccatctacagtcagcaactaaactagattatcttcccttccacttgg 180
 QY 161 ggtttgtatcatttaacacacctcttccattcccttccacacacacgtggcggg 240
 DB 161 ggtttgtatcatttaacacacctcttccattcccttccacacacacgtggcggg 240
 QY 181 ggtttgtatcatttaacacacctcttccattcccttccacacacacgtggcggg 240
 DB 181 ggtttgtatcatttaacacacctcttccattcccttccacacacacgtggcggg 240
 QY 241 ccccaagcatatacttctactgctgtctgtgaagaatatactttagcttccaca 300
 DB 241 ccccaagcatatacttctactgctgtctgtgaagaatatactttagcttccaca 300
 QY 241 ccccaagcatatacttctactgctgtctgtgaagaatatactttagcttccaca 300
 DB 241 ccccaagcatatacttctactgctgtctgtgaagaatatactttagcttccaca 300
 QY 301 tatgagaagaatgacatgcaaatgttcttccatgctgtctatcttccacttaacataat 360
 DB 301 tatgagaagaatgacatgcaaatgttcttccatgctgtctatcttccacttaacataat 360
 QY 361 gaccccgcttccatcagttatatacttaacaaatagtggtatataataatatacaca 420
 DB 361 gaccccgcttccatcagttatatacttaacaaatagtggtatataataatatacaca 420
 QY 421 caaatatatacaacattgcatctgttccaaatatactatgacggaactgttgaatgtcat 480
 DB 421 caaatatatacaacattgcatctgttccaaatatactatgacggaactgttgaatgtcat 480
 QY 481 atcgtgtgcatctgtgagatgctgcaataacacgcaagtggtgatatataatctgaag 540
 DB 481 atcgtgtgcatctgtgagatgctgcaataacacgcaagtggtgatatataatctgaag 540
 QY 541 tcttttctgtgctgtcctccaaatttaagaatgtcttctcaatgctgttgaagaatg 600
 DB 541 tcttttctgtgctgtcctccaaatttaagaatgtcttctcaatgctgttgaagaatg 600
 QY 601 gttagatattcatagagaatgcatggaatctgttagatgctgttggaagaatgttcat 660
 DB 601 gttagatattcatagagaatgcatggaatctgttagatgctgttggaagaatgttcat 660
 QY 661 tttagatgtaataatttttcatccatgagaatgagatgcttccatctgttctgtcc 720
 DB 661 tttagatgtaataatttttcatccatgagaatgagatgcttccatctgttctgtcc 720
 QY 721 tctaaatttcttcatcaaaagtcttctgtatcttctgaagtagatgtaattcaccttat 780

DU 721 tctaaatttcttcatcaaaagtcttctgtatcttctgaagtagatgtaattcaccttat 780
 QY 781 agatcaagtgatctccctaaatatttatttctgtagcattgtgataagaaatgccttc 840
 DB 781 agatcaagtgatctccctaaatatttatttctgtagcattgtgataagaaatgccttc 840
 QY 841 tggattcttcttccacttaattcattatagtgatgagaatgataagattattctg 900
 DB 841 tggattcttcttccacttaattcattatagtgatgagaatgataagattattctg 900
 QY 901 tggattcttccaaacacatgataacttagagatcttctgtgagatcttcttctt 960
 DB 901 tggattcttccaaacacatgataacttagagatcttctgtgagatcttcttctt 960
 QY 961 ctgagataagatcatgacatctaccacaaataaaaaaa 1001
 DB 961 ctgagataagatcatgacatctaccacaaataaaaaaa 1001

RESULT 2

AAC79439
 ID AAC79439 standard; CDNA: 1001 BP.

AC AAC79439;

DI 07-FEB-2001 (first entry)

DE cDNA sequence of human breast tumour clone 1012H8.

KW Human: breast tumour antigen; cytosolic; immunotherapy;

KM breast cancer; vaccine; ss.

OS Homo sapiens.

PN W020061756-A2.

PD 19-OCT-2000.

PE 10-APR-2000; 2000MD-US09688.

PR 09-APR-1995; 990S-0268950.

PR 02-JUL-1995; 990S-0316327.

PA (COR1-) CORIXA CORP.

PI Reed SG, Xu J, Dillon DC.

DR WPI: 2000-636568/61.

PI A novel isolated polypeptide comprising an immunogenic portion of a breast cancer protein useful in the detection and treatment of breast cancer.

PS Claim 4; Page 77-78; 55pp; English.

CC The present sequence was isolated from a breast tumour cDNA library. It
 CC is provided in a specification relating to compounds for immunotherapy
 CC and diagnosis of breast cancer. Breast tumour antigens and the
 CC polynucleotides that encode them may be used in the production of a
 CC pharmaceutical composition to be used in the treatment of breast cancer.
 CC Proliferated T cells and incubated antigen presenting cells are also
 CC required. The polypeptides and polynucleotides may also be used to
 CC produce a vaccine.

SU Sequence 1001 BP; 278 A; 159 C; 160 G; 404 T; 0 other;

Query Match 100.0%; Score 1001; DB 21; Length 1001;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 gaatgtaacagatcaagtcagggtatctgtgtatccacacacttgagcattatcagat 60